

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: A. Fawcett Examiner #: 77541 Date: 08/20/03  
Art Unit: 3739 Phone Number 30 5-5787 Serial Number: 101099096  
Mail Box and Bldg/Room Location: \_\_\_\_\_ Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.  
\*\*\*\*\*

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

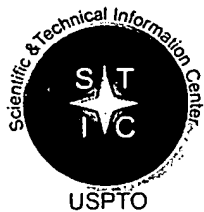
Title of Invention: Treatment of Skin Disorders with UV light and cooling  
Inventors (please provide full names): Dean S. Irwin

Earliest Priority Filing Date: 10/20/00

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Method and Apparatus for treating diseased skin with UV light, comprising:  
- Irradiating the skin with UV light having intensity equal or greater than about 1 MED (minimum/minimal erythema/erythema dose) in the UVB (300-320nm) range of the ~~opti~~ spectrum; and  
- cooling the skin prior, during, or after the irradiation.  
\* check treatment of vitiligo, psoriasis, eczema, etc.

*****	
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Searcher: <u>Bode AKintola</u>	Type of Search
Searcher Phone #: <u>305 6150</u>	NA Sequence (#) _____
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Date Searcher Picked Up: <u>8-25-03</u>	Structure (#) _____
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**EIC 3600**

Questions about the scope or the results of the search? Contact *the EIC searcher* or contact:

Karen Lehman, EIC 3600 Team Leader  
306-5783, PK5- Suite 804

## Voluntary Results Feedback Form

➤ I am an examiner in Workgroup:  Example: 3620 (optional)

➤ Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature  
(journal articles, conference proceedings, new product announcements etc.)

➤ Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to EIC3600 PK5 Suite 804





# **STIC Search Report**

**EIC 3600**

**STIC Database Tracking Number: 101782**

**TO: Ahmed M Farah**  
**Location:** CP2 4D31  
**Art Unit : 3739**  
**Monday, August 25, 2003**

**Case Serial Number: 10/090096**

**From: Bode Akintola**  
**Location: EIC 3600**  
**PK5-Suite 804, 8A01**  
**Phone: 308-6150**

**Olabode.akintola@uspto.gov**

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### Ultraviolet light treatment

#### Definition

Ultraviolet light treatment uses a particular band of the nonvisible light spectrum to treat **psoriasis** and a variety of other skin diseases. It can be used alone or in combination with other medications applied directly to the skin or taken internally.

#### Purpose

Ultraviolet (UV) light treatment is used primarily in cases of severe psoriasis that have not responded to other medications or in cases affecting large portions of the body. Patients will typically receive a series of 3-5 weekly treatments for a month or more to bring their psoriasis symptoms into check. They may also receive periodic maintenance treatments to prevent recurrence of their psoriasis. Other skin conditions treated with UV light treatments are **vitiligo**, a condition in which people lose pigmentation in large patches of their skin, and **atopic dermatitis**, an allergy-related skin condition that produces itchy, reddish, and scaly patches of skin.

#### Precautions

Exposure to UV radiation is known to prematurely age the skin over time and increase the risk of skin **cancer**. These potential effects should be weighed against the potential benefits of the treatment. A history will be taken regarding sun exposure and burning, medications, such as **diuretics**, that may increase UV sensitivity exposure, and any history of skin cancers. Sometimes, UV light treatments are given in combination with photosensitizing agents, which maximize UV's effects on the skin. Patients who receive these agents, called psoralens, must take care to avoid exposure to sunlight, which also contains UV radiation. Exposure to UV radiation can also cause **cataracts** and other eye damage, so the patient's eyes must be adequately shielded during the treatments.

#### Description

UV light treatment can employ one of two bands of the ultraviolet spectrum: ultraviolet A (UVA), and ultraviolet B (UVB). Patients receive full body treatments in special light boxes; smaller areas of the skin are sometimes treated with hand-held devices.

#### UVB treatment

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Psoriasis is the most common skin disease treated with UVB light treatment. Its mechanism of action remains unclear, but investigators speculate it may kill abnormal skin cells or alter immune system reactions in the skin. Most patients require 18-30 treatments before substantial improvement or complete clearing is seen. The intensity of the UV applied will vary depending on the patient's skin type. Fair-skinned patients will start with a relatively weaker dose; dark-skinned patients, a stronger dose. Physicians will first expose a small area of skin to UVB to determine the minimum erythema dose (MED), the minimum amount of UVB that produces redness 24 hours after exposure. Patients will be exposed for short times early in the treatment cycle, but these times will gradually increase over time.

The Goeckerman regimen, a treatment that combines UVB light with coal tar applied to the skin, is among the oldest and most frequently used treatments for patients with moderate to severe psoriasis. The coal tar is a photosensitizing agent, and, when it interacts with UVB, it appears to limit the abnormal turnover of skin cells characteristic of psoriasis. Although treatments with UVB and coal tar are highly effective, many patients dislike the smell. Some investigators believe use of petroleum jelly or other emollients are just as effective as the coaltar preparations.

In addition to their UVB treatments, many patients will receive systemic agents such as methotrexate, a drug used in severe case of psoriasis, and certain vitamin A derivatives called retinoids.

### PUVA treatment

Psoralens are photosensitizing agents found in plants. They have been known since ancient Egypt but have only been available in a chemically synthesized form since the 1970s. Psoralens are taken systemically or can be applied directly to the skin. The psoralens allow a relatively lower dose of UVA to be used. When they are combined with exposure to UVA in PUVA, they are highly effective at clearing psoriasis. Like UVB light treatments, the reason remains unclear, though investigators speculate there may be similar effects on cell turnover and the skin's immune response.

Choosing the proper dose for PUVA is similar to the procedure followed with UVB. The physician can choose a dose based on the patient's skin type. Often, however, a small area of the patient's skin will be exposed to UVA after ingestion of psoralen. The dose of UVA that produces uniform redness 72 hours later, called the minimum phototoxic dose (MPD), becomes the starting dose for treatment.

Some patients experience nausea and **itching** after ingesting the psoralen compound. For these patients "bath PUVA" may be a good option.

### Preparation

No major preparation is required for UV light treatments. Areas of the skin that are especially sensitive to the effects of UV light, such as the groin, backside, or face, are shielded during the treatments. Areas not affected by psoriasis are also covered. Special goggles are worn to protect the eyes. Some physicians apply an emollient, such as petroleum jelly, to the skin or other topical agents, such as coal tar, to enhance the results. In PUVA treatments, the psoralen is usually

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taken one hour before the treatment.

### **Aftercare**

No major aftercare is required following UV light treatments. Patients, however, must take great care to limit or eliminate other exposures to UV radiation, such as from sunlight or tanning beds, because of the increased risk of premature **aging** of the skin and the development of skin cancers. Patients should monitor their skin closely for any signs of precancerous or cancerous skin growths in the future.

### **Risks**

People who receive UV light treatments are at higher risk of premature aging of the skin, and of developing skin cancer. These risks should be balanced against the benefits of treatment. Patients must also take care to limit or eliminate their exposure to other sources of UV radiation, especially if they are taking a psoralen compound in addition to receiving the UV treatments.

### **Normal results**

Psoriasis will normally show significant improvement to complete healing with three to five UVB treatments a week for about four to five weeks. PUVA treatments may require a bit longer to take effect, but because the overall dosage of UV is lower, they are thought by some investigators to be a safer alternative to UVB treatments.

### **Abnormal results**

Modern light boxes carefully control the dosage of UV radiation and the exposure time. Overdose or overexposure is possible, however, and can lead to severe **burns**. It is important to choose a treatment provider who is experienced in the technique. It is also important to tell the physician about all medications being taken by the patient. Some medications, either alone or in combination with a psoralen, can provoke an extreme reaction to UV radiation.

### **Key Terms**

#### **Goeckerman regimen**

UVB light therapy combined with topical coal-tar preparations.

#### **Minimum erythema dose**

The minimum amount of UVB that produces redness 24 hours after exposure. It is the starting dose for UVB light treatments.

#### **Minimum phototoxic dose**

The dose of UVA that produces uniform redness 72 hours after ingesting a psoralen compound. It becomes the starting dose for PUVA treatment.

#### **Psoralen**

A family of photosensitizing chemicals that can be found in lemons, celery, and other plants. Chemically synthesized versions are used to augment the effects of

UVA light treatments.

**PUVA treatments**

Treatments with the photosensitizers called psoralens and UVA.

**Ultraviolet light**

A portion of the light spectrum not visible to the eye. Two bands of the UV spectrum, UVA and UVB, are used to treat psoriasis and other skin diseases.

**For Your Information****Books**

- Dover, Jeffrey S. "Phototherapy." In Manual of Clinical Problems in Dermatology ed. Susan M. Olbricht, et al. Boston: Little, Brown and Co., 1992.
- Lynch, Peter J., and W. Mitchell Sams Jr. Principles and Practice of Dermatology. 2nd ed. New York: Churchill Livingstone, 1996.

**Periodicals**

- Lowe, Nicholas J. "Photo(chemo)therapy: General Principles." Clinics in Dermatology 15 (Sept./Oct. 1997): 745-752.
- Nee, Tham Siew. "Phototherapy." Clinics in Dermatology 15 (Sept./Oct. 1997): 753-767.

**Organizations**

- American Academy of Dermatology. 930 N. Meacham Road, P.O. Box 4014, Schaumburg, IL 60168-4014. (847) 330-0230. <http://www.aad.org>
- National Psoriasis Foundation. 6600 SW 92nd Ave., Suite 300, Portland OR 97223-7195. (503) 244-7404. <http://www.psoriasis.org>

Source: Gale Encyclopedia of Medicine, Published December, 2002 by the Gale Group

The Essay Author is Richard H. Camer.

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S2	1825231	UV OR ULTRAVIOLET? OR ULTRA()VIOLET
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S5	12111	S3(25N)S2
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DIALOG(R)File 5:Biosis Previews(R)  
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10897967 BIOSIS NO.: 199799519112

**Skin temperature and phototest evaluation.**

AUTHOR: Gniadecka M(a); Lock-Andersen J; Olivarius F De Fine; Wulf H C

AUTHOR ADDRESS: (a)Dep. Dermatol., Bispebjerg Hosp., Univ. Copenhagen,  
Bispebjerg Bakke 23, 2400 Copenhagen\*\*Denmark

JOURNAL: Photodermatology Photoimmunology & Photomedicine 12 (5):p189-193  
1996

ISSN: 0905-4383

RECORD TYPE: Abstract

LANGUAGE: English

ABSTRACT: The degree of **erythema** following **UV** irradiation is known to depend upon **skin** temperature at the time of **UV** exposure. We investigated whether changes in **skin** temperature at the time of **erythema** assessment influenced the level of **erythema**. Twenty-two healthy people (mean age 26 years) were irradiated with solar simulated radiation on previously **UV** un-exposed buttock **skin**. The **erythematos** reactions were evaluated 20-24 h after irradiation by visual scoring and by measurements of **skin** reflectance and laser Doppler flowmetry. The readings were done at the baseline level at 21...

...room temperature where skin temperature was 30.0 +/- 1.7 degree C and subsequently after **skin** warming to 37.2 +/- 2.5 degree C and after **cooling** to 22.8 +/- 2.6 degree C. After **skin** warming, a clinically evaluated **erythema** grade (0, (+), +, ++, +++) was scored higher for at least one reaction in 10 of 22 individuals (45%). In the same proportion of subjects, changes to lower **erythema** grades were detected upon **cooling**. **Skin** warming caused an increase in laser Doppler blood flux, but **skin** **cooling** did not have a significant effect on cutaneous perfusion. Skin redness measured by skin reflectance was relatively stable during the **cooling** phase, but a significant increase in skin redness was noted for 0 reaction upon skin...

...a small but significant decrease in reflectance was noted. Our results indicate that alterations in **skin** temperature, especially a temperature increase, modulates the degree of **UV** -induced **erythema** moderately. The temperature-dependent changes as an assessment of the (+) reaction are of practical significance...

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03867367 BIOSIS NO.: 000075045440

**EFFECTS OF TEMPERATURE ON UV INDUCED ERYTHEMA OF HUMAN SKIN 1.**

**CONVECTIVE COOLING**

AUTHOR: SHEA C R; PARRISH J A

AUTHOR ADDRESS: DEP. DERMATOL., HARVARD MED. SCH., MASS. GEN. HOSP.,  
BOSTON, MASS. 02114, USA.

JOURNAL: ARCH DERMATOL RES 273 (3-4). 1982. 233-240. 1982

FULL JOURNAL NAME: Archives of Dermatological Research

CODEN: ADRED

RECORD TYPE: Abstract

LANGUAGE: ENGLISH

**EFFECTS OF TEMPERATURE ON UV INDUCED ERYTHEMA OF HUMAN SKIN 1.**

## CONVECTIVE COOLING

ABSTRACT: Convective cooling of human skin to 20.degree. C or less for 1 h immediately after UV -B irradiation (290-320 nm) results in a significant increase in erythema threshold when erythema was observed at 4-6 h postirradiation. Cooling the skin immediately before UV -B irradiation showed no consistent influence on the erythema response. In neither case was an effect of cooling on erythema threshold apparent when erythema was evaluated at 24 h postirradiation. These effects may be due to alterations in the...

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03230421 Genuine Article#: NN765 No. References: 41

Title: SUNLIGHT INACTIVATION OF ENTEROCOCCI AND FECAL-COLIFORMS IN SEWAGE EFFLUENT DILUTED IN SEAWATER

Author(s): DAVIESCOLLEY RJ; BELL RG; DONNISON AM

Corporate Source: NATL INST WATER & ATMOSPHER RES LTD,NATL INST WATER & ATMOSPHER ECOSYST,POB 11-115/HAMILTON//NEW ZEALAND//; MEAT IND RES INST NEW ZEALAND INC,ENVIRONM MANAGEMENT SECT/HAMILTON//NEW ZEALAND/

Journal: APPLIED AND ENVIRONMENTAL MICROBIOLOGY, 1994, V60, N6 (JUN), P 2049-2058

ISSN: 0099-2240

Language: ENGLISH Document Type: ARTICLE (Abstract Available)

Research Fronts: 92-2660 001 ( SKIN OF HAIRLESS MICE; UVA PROTECTION FACTOR SUNSCREENS; ULTRAVIOLET B-INDUCED ERYTHEMAL RESPONSE; SCREENING PHOTOPROTECTIVE AGENTS)

92-4242 001 (SOIL OF GENETICALLY ENGINEERED ESCHERICHIA-COLI; DIRECT VIABLE COUNT; COOLING WATER; INCUBATION IN SEAWATER; AQUATIC ECOSYSTEMS; BACTERIAL VIABILITY)

92-6284 001 (DNA IN AQUEOUS-SOLUTION...

19/3,K/4 (Item 1 from file: 103)

DIALOG(R)File 103:Energy SciTec

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01144765 EDB-83-044782

Title: Effects of temperature on ultraviolet-induced erythema of human skin. Pt. 1

Author(s): Shea, C.R.; Parrish, J.A.

Source: Arch. Dermatol. Res. (Germany, Federal Republic of) v 273:3-4.

Coden: ADRED

Publication Date: Jul 1982

p 233-239

Language: English

Abstract: Convective cooling of human skin to 20/sup 0/C or less for 1 h immediately after ultraviolet -B irradiation ( UV -B, 290-320 nm) results in a significant increase in erythema threshold when erythema was observed at 4-6 h postirradiation. Cooling the skin immediately before UV -B irradiation showed no consistent influence on the erythema response. In neither case was an effect of cooling on erythema threshold apparent when erythema was evaluated at 24 h postirradiation. These effects may be due to alterations in the...

19/3,K/5 (Item 1 from file: 180)  
DIALOG(R)File 180:Federal Register  
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DIALOG Accession Number: 02281978 Supplier Number: 930501233  
Sunscreen Drug Products for Over-the-Counter Human Use; Tentative Final  
Monograph  
Volume: 58 Issue: 90 Page: 28194  
CITATION NUMBER: 58 FR 28194  
Date: WEDNESDAY, MAY 12, 1993.

TEXT:  
...labeling.

The agency agrees that educating the public about the dangers of excessive sun or UV radiation exposure is important. However, a number of the items that the comment suggested for... of currently marketed sunscreen drug products and the amount of protection needed by the various skin types.

The agency believes that the information in the product guide should be presented in...

19/3,K/6 (Item 1 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01060481

Microcapsule having a specific wall and method for producing the same  
Mikrokapsel mit spezifischen Wänden und Verfahren zur Herstellung  
Microcapsule a paroi particuliere et son procede de fabrication

PATENT ASSIGNEE:

SEIWA KASEI CO., LTD., (1149220), 2-14, Nunoichi-cho 1-chome,  
Higashiosaka-shi Osaka-fu, (JP), (Applicant designated States: all)

INVENTOR:

Yoshioka, Masato, c/o Seiwa Kasei Co., Ltd., 1-2-14, Nunoichi-cho,  
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Segawa, Akihiro, c/o Seiwa Kasei Co., Ltd., 1-2-14, Nunoichi-cho,  
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Higashi-osaka, Osaka, (JP)  
Nosaka, Koji, c/o Seiwa Kasei Co., Ltd., 1-2-14, Nunoichi-cho,  
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Higashi-osaka, Osaka, (JP)

LEGAL REPRESENTATIVE:

VOSSIUS & PARTNER (100314), Siebertstrasse 4, 81675 Munchen, (DE)  
PATENT (CC, No, Kind, Date): EP 934773 A2 990811 (Basic)  
EP 934773 A3 000223

APPLICATION (CC, No, Date): EP 99101669 990205;  
PRIORITY (CC, No, Date): JP 9841063 980206; JP 98322933 981029  
DESIGNATED STATES: DE; ES; FR; GB; IT  
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: B01J-013/02; B01J-013/18; A61K-009/50;  
A61K-007/00  
ABSTRACT WORD COUNT: 182

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9932	891
SPEC A	(English)	9932	26239
Total word count - document A			27130
Total word count - document B			0
Total word count - documents A + B			27130

...SPECIFICATION heated to reflux with stirring at 150 rpm for 3 hours.  
This reaction solution was **cooled** with stirring at 150 rpm at room temperature to obtain a microcapsule containing core material...

...tape is 2 (mu)l/cm2) and a certain amount when measuring SPF value and **ultraviolet** ray transmittance, respectively.

Calculation of SPF value

E((lambda)): Spectral distribution of day light

(epsilon) ((lambda)): Action spectrum of delayed type actinic

**erythema**

MPF ((lambda)): Reciprocal of transmittance at each wavelength

Analysis method 9

Measurement of **skin** permeability

Yucatan Micropig **skin** (5 months old, male, Nippon Charsliver) frozen and stored at -80(degree)C was thawed...

19/3,K/7 (Item 2 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00567214

**s-Triazine derivatives having light-protecting action**

**s-Triazinderivate als Lichtschutzmittel**

**Derives de s-triazine comme stabilisateurs a la lumiere**

PATENT ASSIGNEE:

SIGMA PRODOTTI CHIMICI S.p.A., (1190554), Piazzale Principessa Clotilde, 6, I-20121 Milano, (IT), (applicant designated states:

AT;BE;CH;DE;ES;FR;GB;LI;NL)

INVENTOR:

Raspanti, Giuseppe, Via T. Tasso, 58, I-24100 Bergamo, (IT)

LEGAL REPRESENTATIVE:

Bianchetti, Giuseppe (40211), Studio Consulenza Brevettuale Via Rossini, 8, I-20122 Milan, (IT)

PATENT (CC, No, Kind, Date): EP 570845 A1 931124 (Basic)

APPLICATION (CC, No, Date): EP 93107793 930513;

PRIORITY (CC, No, Date): IT 92MI1202 920519

DESIGNATED STATES: AT; BE; CH; DE; ES; FR; GB; LI; NL

INTERNATIONAL PATENT CLASS: C07D-405/14; A61K-007/44; C08K-005/3492;

C07D-405/12;

ABSTRACT WORD COUNT: 25

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	393

SPEC A (English) EPABF1 1614  
 Total word count - document A 2007  
 Total word count - document B 0  
 Total word count - documents A + B 2007

...SPECIFICATION to protect the formulations themselves, for example to prevent undesired discolourations, or to protect the **skin** treated with the formulation from the damaging action of **UV -A** and **UV -B** radiations, which causes **erythema** and accelerates the ageing of the **skin** making it prematurely dry, wrinkled or squamous.

The following examples illustrate the invention.

EXAMPLE 1

A solution of 18.5 g of trichlorotriazine in 230 ml of acetone, **cooled** to 0(degree)C, is added with 8.8 g of sodium bicarbonate, then slowly...

...21 g of 4-(2-benzofuranyl)aniline keeping the temperature at 0(degree)C by **cooling**. Subsequently the mixture is stirred for 1/2 hour, 60 ml of water are added...

19/3,K/8 (Item 3 from file: 348)  
 DIALOG(R) File 348:EUROPEAN PATENTS  
 (c) 2003 European Patent Office. All rts. reserv.

00536001

**Alkylmethylsiloxanes for skin care.**

**Alkylmethylsiloxane zur Hautpflege.**

**Alkylmethylsiloxanes pour le soin de la peau.**

PATENT ASSIGNEE:

DOW CORNING CORPORATION, (275274), 3901 S. Saginaw Road, Midland Michigan 48686-0994, (US), (applicant designated states: DE;FR;GB;IT)

INVENTOR:

Giwa-Agbomeirele, Patricia, 1220 Baldwin, Midland, Michigan, (US)

Malczewski, Regina Marie, 4210 Linden Drive, Midland, Michigan, (US)

Legrow, Gary Edward, 1213 Wildwood, Midland, Michigan, (US)

LEGAL REPRESENTATIVE:

Dowden, Marina et al (76001), Elkington and Fife Prospect House, 8 Pembroke Road, Sevenoaks, Kent TN13 1XR, (GB)

PATENT (CC, No, Kind, Date): EP 495596 A1 920722 (Basic)  
 EP 495596 B1 950531

APPLICATION (CC, No, Date): EP 92300245 920110;

PRIORITY (CC, No, Date): US 642623 910117

DESIGNATED STATES: DE; FR; GB; IT

INTERNATIONAL PATENT CLASS: A61K-007/48;

ABSTRACT WORD COUNT: 55

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	189
CLAIMS B	(English)	EPAB95	172
CLAIMS B	(German)	EPAB95	160
CLAIMS B	(French)	EPAB95	168
SPEC A	(English)	EPABF1	3719
SPEC B	(English)	EPAB95	3653
Total word count - document A			3908
Total word count - document B			4153
Total word count - documents A + B			8061

...SPECIFICATION acetylated lanolin and isopropyl lanolate.



Sunscreens are evaluated according to their ability to slow the **erythema** or sunburn resulting from the exposure of **skin** to **ultraviolet** light between about 290-320 nanometers (the **UV -B** region). This is accomplished by absorbing damaging radiation before the radiation contacts the **skin** surface. Para-aminobenzoic acid derivatives and cinnamates such as octyl methoxycinnamate are examples of preferable...  
...2)/s (five centistokes) measured at 25(degree)C. These solvent materials provide a non- **cooling** and non-stinging solvent like characteristic and evaporate leaving little or no residue. The solvent...

...SPECIFICATION acetylated lanolin and isopropyl lanolate.

Sunscreens are evaluated according to their ability to slow the **erythema** or sunburn resulting from the exposure of **skin** to **ultraviolet** light between about 290-320 nanometers (the **UV -B** region). This is accomplished by absorbing damaging radiation before the radiation contacts the **skin** surface. Para-aminobenzoic acid derivatives and cinnamates such as octyl methoxycinnamate are examples of preferable...

...2)/s (five centistokes) measured at 25(degree)C. These solvent materials provide a non- **cooling** and non-stinging solvent like characteristic and evaporate leaving little or no residue. The solvent...

19/3,K/9 (Item 4 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

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00384632

**ULTRAVIOLET ABSORBING COSMETIC.**

**ULTRAVIOLETT ABSORBIERENDES KOSMETIKUM.**

**COSMETIQUE ABSORBANT LES RAYONS ULTRAVIOLETS.**

PATENT ASSIGNEE:

TEIJIN LIMITED, (212524), 6-7, Minamihonmachi 1-chome Chuo-ku, Osaka-shi

Osaka 541, (JP), (applicant designated states: CH;DE;FR;GB;IT;LI)

TAKEMOTO OIL & FAT CO., LTD., (1209560), 2-5, Minato-machi, Gamagori-shi,

Aichi 443, (JP), (applicant designated states: CH;DE;FR;GB;IT;LI)

INVENTOR:

YOSHIDA, Norio, 4-11-26, Shimohozumi, Ibaraki-shi Osaka 567, (JP)

SUGIURA, Masato, 955-1, Arimae Fuso-cho,, Gamagori-shi Aichi 443, (JP)

SUGIURA, Fumitoshi, 26-5, Sakuma Takenoya-cho, Gamagori-shi Aichi 443, (JP)

LEGAL REPRESENTATIVE:

Cresswell, Thomas Anthony et al (50353), J.A. Kemp & Co. 14 South Square

Gray's Inn, London WC1R 5LX, (GB)

PATENT (CC, No, Kind, Date): EP 383941 A1 900829 (Basic)

EP 383941 A1 910612

EP 383941 B1 931103

WO 9001924 900308

APPLICATION (CC, No, Date): EP 89909430 890818; WO 89JP842 890818

PRIORITY (CC, No, Date): JP 88204596 880819

DESIGNATED STATES: CH; DE; FR; GB; IT; LI

INTERNATIONAL PATENT CLASS: A61K-007/42;

LANGUAGE (Publication,Procedural,Application): English; English; Japanese

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
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CLAIMS B	(English)	EPBBF1	126
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CLAIMS B	(German)	EPBBF1	122
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CLAIMS B	(French)	EPBBF1	153
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SPEC B	(English)	EPBBF1	2782
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Total word count - document A			0
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Total word count - document B 3183  
Total word count - documents A + B 3183

...SPECIFICATION The results are shown in Table 8. Each value means number of animals in which **erythema** was formed at each irradiation time.

(Table omitted)

Table 8 indicates that Examples 8 and 9 perfectly protect the **skin** from **UV** -A compared to the case of non-application and Comparative example and thus have an...

...to about 70(degree)C followed by mixing with stirring, and the resulting mixture was **cooled** to about 40(degree)C and homogenized after addition of perfume.

EXAMPLE 11 (Emulsion)

(Table...

19/3,K/10 (Item 1 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00436324

MEDICAL COMPOSITION AND USE THEREOF FOR THE MANUFACTURE OF A TOPICAL BARRIER FORMULATION, A UV-RADIATION ABSORBING FORMULATION, OR AN ANTIVIRAL, ANTIFUNGAL, OR ANTIINFLAMMATORY FORMULATION

COMPOSITION MEDICALE ET SON UTILISATION POUR FABRIQUER UNE FORMULATION BARRIERE TOPIQUE, UNE FORMULATION ABSORBANT LE RAYONNEMENT U.V. OU UNE FORMULATION ANTIVIRALE, ANTIFONGIQUE OU ANTI-INFLAMMATOIRE

Patent Applicant/Assignee:

NOVISCENS AB,  
JOHANSSON Benny,  
NIKlasson Bo,

Inventor(s):

JOHANSSON Benny,  
NIKlasson Bo,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9826788 A1 19980625

Application: WO 97SE2126 19971216 (PCT/WO SE9702126)

Priority Application: SE 964610 19961216

Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES

FI GB GE GH GM GW HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD

MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US

UZ VN YU ZW GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE

CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML

MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 15299

Fulltext Availability:

Claims

Claim

... attached to

the cationic, hydrophilic amine containing polymer.

First, there is an apparent sequestration of **UV** radiation

before it reaches the **skin** surface. Normal sunscreen com

pounds have been reported to protect against **erythema** and

inflammation, but recent studies have revealed a minimal

protection against local and systemic immunosuppression. 5 Evidence more

and more indicate that **UV** -induced immuno

suppression contributes to the development of **skin**

cancers, cutaneous photoaging and various cutaneous inflammatory disorders in humans. Studies on mice have shown...dissolution, the solution may be heated at 600C until the polymers are completely dissolved. At cooling a stable gel forms spontaneously.

In order to investigate the protective barrier effect of the...solution is heated to 700C and mixed with the hydrophobic ingredients (700C). The mixture is cooled to 40-45'C during homogenisation. During stirring the cream is cooled to below 300C. A preservative (e.g. sorbic acid and/or phenoxyethanol) may also be...

19/3,K/11 (Item 2 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2003 WIPO/Univentio. All rts. reserv.

00374783 \*\*Image available\*\*

**HYDROTHERMAL PROCESS FOR MAKING ULTRAFINE METAL OXIDE POWDERS**  
**PROCEDE HYDROTHERMAL DE FABRICATION DE POUDRES ULTRAFINES D'OXYDES METALLIQUES**

Patent Applicant/Assignee:

E I DU PONT DE NEMOURS AND COMPANY,

Inventor(s):

BRUNO Salvatore Anthony,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9715526 A1 19970501

Application: WO 96US16292 19961011 (PCT/WO US9616292)

Priority Application: US 95548987 19951027

Designated States: JP AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Fulltext Word Count: 9458

Fulltext Availability:

Detailed Description

Detailed Description

... pressure vessel is agitated.

After heating for about 2-5 hours, the pressure vessel is cooled to about 25-50 degrees C. A white titanium dioxide product is recovered from the...

...of terrestrial sunlight under defined conditions multiplied by B(1), and the relative effectiveness of UV radiation at a specified wavelength in producing delayed erythema (redness) in human skin. This calculation is described in greater detail in CIE Journal 1987, 6, pp. 17-22...

19/3,K/12 (Item 3 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2003 WIPO/Univentio. All rts. reserv.

00270765

**TITANIUM DIOXIDE DISPERSIONS, COSMETIC COMPOSITIONS AND METHODS FOR USING THE SAME**  
**DISPERSIONS DE DIOXYDE DE TITANE, COMPOSITIONS COSMETIQUES ET PROCEDES D'UTILISATION**

Patent Applicant/Assignee:

ESTEE LAUDER INC,

Inventor(s):

ZECCHINO Julius R,  
MESSIN Steven,  
CORCORAN Cathleen,  
CHUNG Kenneth T,  
Patent and Priority Information (Country, Number, Date):  
Patent: WO 9418940 A1 19940901  
Application: WO 94US2196 19940225 (PCT/WO US9402196)  
Priority Application: US 93498 19930226  
Designated States: AU CA JP AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE  
Publication Language: English  
Fulltext Word Count: 6857

Fulltext Availability:  
Detailed Description

#### Detailed Description

... maintain temperature, add Sequence 6  
to the batch under 8-10 rpm sidewiper agitation.

Resume **cooling** to 270C. While the batch is **cooling** ,  
prepare the Sequence 7 Germall solution in an  
auxiliary mixing vessel with propeller agitation.

When...

...agitation while continuing to cool  
to 270C, When batch is uniform and at 270C, stop  
**cooling** and mixing, Remove batch from kettle by  
pumping slowly through a 150 mesh Nylon Bag...

...study,  
Light Source - A Xenon Arc Solar Simulator  
(150w) was used as the source of **ultraviolet** light,  
(Solar Light Company, Philadelphia, PA), The  
instrument produces a continuous emission spectrum in  
the **UV** -B range (290-320 nanometers),  
Determination of Minimal **Erythema** Dose  
(MED) - An MED is defined as the time interval or  
dosage of **UV** light irradiation sufficient to produce a  
minimal, perceptible **erythema** on untreated **skin** ,  
.P% I qvno%  
SUBS . '"ITUTE SHEET (RULIE 26)  
Prior to the testing phase, the MED...

19/3,K/13 (Item 1 from file: 351)  
DIALOG(R)File 351:Derwent WPI  
(c) 2003 Thomson Derwent. All rts. reserv.

010832468

WPI Acc No: 1996-329420/199633

XRAM Acc No: C96-104338

**Ultraviolet ray absorber and dermatological prepn. - comprises  
chlorogenic acid analogues and/or caffeic acid for skin protection and  
sunburn prevention**

Patent Assignee: HASEGAWA CO LTD (HASE )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 8151319	A	19960611	JP 94291507	A	19941125	199633 B

Priority Applications (No Type Date): JP 94291507 A 19941125

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 8151319	A		5	A61K-007/42	

...Abstract (Basic): heating at 65 degree C for 3 hours with 70 wt. % methanol (2400 g). After **cooling**, the extracted soln. was condensed under reduced pressure to remove methanol. To the conc. residue...  
...acid (5 wt.% soln) was applied at 250 microlitre cm2 to the hair-removed back **skin** of guinea pigs, no **erythema** occurred after **UV** irradiation...

19/3,K/14 (Item 1 from file: 652)  
DIALOG(R)File 652:US Patents Fulltext  
(c) format only 2002 The Dialog Corp. All rts. reserv.

00754030

Utility  
SUN-SCREENING COMPOUNDS III  
[ULTRAVIOLET RADIATION]

PATENT NO.: 3,879,443  
ISSUED: April 22, 1975 (19750422)  
INVENTOR(s): Strobels, Albert Frederick, Delmar, NY (New York), US (United States of America)  
ASSIGNEE(s): GAF Corporation, (A U.S. Company or Corporation), New York, NY (New York), US (United States of America)  
[Assignee Code(s): 32972]  
EXTRA INFO: Assignment transaction [Reassigned], recorded June 14, 1989 (19890614)  
Assignment transaction [Reassigned], recorded October 30, 1989 (19891030)  
Assignment transaction [Reassigned], recorded October 30, 1990 (19901030)  
Assignment transaction [Reassigned], recorded December 3, 1990 (19901203)  
Assignment transaction [Reassigned], recorded June 17, 1991 (19910617)  
APPL. NO.: 5-465,258  
FILED: April 29, 1974 (19740429)  
FULL TEXT: 259 lines

... relates to sun-screening compositions, methods of using the same and novel sun-screening compounds.

**Ultraviolet** radiation on the **skin**, such as from the sun, of a wavelength of 290 - 313 mu is known to produce **erythema**, particularly in fair skinned subjects. On the other hand, **ultraviolet** radiation of from 315 - 320 mu to 350 - 400 mu promotes a tanning of the **skin**. To be effective, a sun-screening composition must remove substantially all of the burning rays...

...about 30 - 60 minutes until a clear liquid results, according to process A below. On **cooling** a glass-like composition is obtained. [See graphic in original document]

Where Y and R...

19/3,K/15 (Item 2 from file: 652)  
DIALOG(R)File 652:US Patents Fulltext  
(c) format only 2002 The Dialog Corp. All rts. reserv.

00739089

Utility

SUNSCREENING COMPOSITIONS CONTAINING SULFONIUM SALTS  
[3-P-NITROBENZAMIDO-PROPYL DODECYL METHYL SULFONIUM BROMIDE]

PATENT NO.: 3,864,474  
ISSUED: February 04, 1975 (19750204)  
INVENTOR(s): Gerecht, John Fred, Somerville, NJ (New Jersey), US (United States of America)  
ASSIGNEE(s): Colgate-Palmolive Company, (A U.S. Company or Corporation ), New York, NY (New York), US (United States of America)  
[Assignee Code(s): 18624]  
APPL. NO.: 5-148,158  
FILED: May 28, 1971 (19710528)

The present application is a continuation in part of abandoned U.S. Application Ser. No. 820,280, filed Apr. 29, 1969, which is a continuation in part of abandoned U.S. Application Ser. No. 492,316, filed Oct. 1, 1965.

FULL TEXT: 577 lines

... have as an active agent or agents in a formulation materials which not only absorb **erythema** radiation but also adhere strongly to the **skin**.

Many compounds capable of absorbing **ultraviolet** radiation have been described in the literature and recommended as sunscreens. Among those recommended... the resulting reaction mixture is heated on a steam bath for about 0.5 hours **cooled** to room temperature and poured into water. The product is taken up in diethyl ether...185 degree(s) F.) with agitation and perfume (q.s.) added to the mixture after **cooling** to about 30 degree(s) to 50 degree(s) C. (86 degree(s) - 122 degree...)

19/3,K/16 (Item 3 from file: 652)  
DIALOG(R)File 652:US Patents Fulltext  
(c) format only 2002 The Dialog Corp. All rts. reserv.

00651127

Utility

SUBSTITUTED SULFONANILIDES IN THE TREATMENT OF INFLAMMATION

PATENT NO.: 3,758,688  
ISSUED: September 11, 1973 (19730911)  
INVENTOR(s): Robertson, Jerry E., North Oaks, MN (Minnesota), US (United States of America)  
Harrington, Joseph K., Edina, MN (Minnesota), US (United States of America)  
Kvam, Donald C., North Oaks, MN (Minnesota), US (United States of America)  
ASSIGNEE(s): Riker Laboratories, Inc , (A U.S. Company or Corporation ), Northridge, CA (California), US (United States of America)  
[Assignee Code(s): 71672]  
APPL. NO.: 5-256,377  
FILED: May 24, 1972 (19720524)

This application is a continuation-in-part of copending application Ser. No. 45,413, filed June 11, 1970, now abandoned, which is a division of application Ser. No. 832,824, now U.S. Pat. No. 3,576,866, filed June 12,

1969 which in turn was a continuation-in-part of the copending applications Ser. No. 588,338, filed Oct. 21, 1966 and Ser. No. 719,741, filed Apr. 8, 1968, both are now abandoned.

FULL TEXT: 657 lines

...cream (e.g. as a 5 percent cream), 5-benzoyldifluoromethanesulfonanilide has been found to inhibit **erythema** of guinea pigs exposed to **ultraviolet** light as described in the **erythema** test. The cream is administered to the **skin** after exposure to the **ultraviolet** light.

To produce the compounds of Formula I, wherein R is hydrogen, an aminobenzophenone is... and 200 ml. of methylene chloride. The mixture was heated at reflux temperature overnight, then **cooled**, washed twice with 500 ml. portions of 10 percent hydrochloric acid and dried over anhydrous ...was added slowly to the stirred mixture at 10-25 degree(s) C. (ice-bath **cooling**). After stirring at room temperature for two hours, the solution was washed with dilute hydrochloric...

19/3,K/17 (Item 4 from file: 652)

DIALOG(R)File 652:US Patents Fulltext

(c) format only 2002 The Dialog Corp. All rts. reserv.

00596230

Utility

SUBSTITUTED PHENYLACETIC ACIDS AND ESTERS THEREOF IN THE TREATMENT OF PAIN AND INFLAMMATION

PATENT NO.: 3,689,656

ISSUED: September 05, 1972 (19720905)

INVENTOR(s): Denss, Rolf, Basel, CH (Switzerland)  
Clauson-Kaas, Niels, Farum, DK (Denmark)  
Ostermayer, Franz, Riehen, CH (Switzerland)

ASSIGNEE(s): Ciba-Geigy Corporation, US (United States of America)  
[Assignee Code(s): 2]

APPL. NO.: 5-43,649

FILED: April 29, 1970 (19700429)

PRIORITY: 15768-66, CH (Switzerland), October 31, 1966 (19661031)  
713-67, CH (Switzerland), January 18, 1967 (19670118)  
11178-67, CH (Switzerland), August 7, 1967 (19670807)

#### CROSS-REFERENCE TO RELATED APPLICATION

This is a divisional application of Ser. No. 679,224, filed Oct. 30, 1967, now U.S. Pat. No. 3,579,535.

FULL TEXT: 1519 lines

... diastereomers, from which the more difficulty soluble one is separated, optionally after concentration and/or **cooling**. Such organic solutions are chosen wherein the two enantiomeric salts have the greatest difference in ... can be demonstrated by the ability of the inventive compounds to delay the appearance of **erythema** in the **skin** of guinea pigs exposed to **ultraviolet** light, when administered before the application of the U.V. radiation.

For example, 2-[p... 590 ml water preheated to 40 degree(s) emulsified therein. The emulsion is stirred until **cooled** to room temperature and then filled into vials.

The following examples further illustrate the production... 5-dimethoxy-tetrahydrofuran in 40 ml of acetic acid are refluxed for 30 minutes. After **cooling**, the reaction solution is poured into 160 ml of water. The precipitated crystals are filtered...undissolved. The resulting suspension of crude acid chloride is added dropwise within an hour, while **cooling** with ice, to a mixture of 200 ml 0.6-N ethereal diazomethane solution and... mol) of potassium hydroxide in 70 ml of methanol and 10 ml of water. After **cooling**, the reaction solution is mixed with water and made acid with conc. hydrochloric acid. The...

... in a Soxhlet apparatus. The ethereal suspension so obtained is concentrated to 50 ml and **cooled** to -20 degree(s). The substance which crystallizes out is filtered off, washed twice with...

... It is refluxed for 3 hours until all of the magnesium is dissolved. To the **cooled** clear solution there is added while stirring vigorously, an ethereal solution of 21.5 g...

... product separates as a viscous mass. The reaction mixture is refluxed for another half hour, **cooled** on ice and decomposed with about 100 ml ... is treated with charcoal, brought to pH 1-2 with 2-N hydrochloric acid and **cooled**. The resulting crystalline precipitate is filtered off under suction, washed neutral with water and dried...

... 5 ml of thionylchloride and 10 ml of benzene is added dropwise while stirring and **cooling** with ice at 10 degree(s) -20 degree(s), to a solution of 20.7...

... ml of concentrated sulphuric acid in 65 ml of methanol. The reaction mixture is then **cooled** to 0 degree(s) and poured onto ice water. The crude 2-[p-(1-pyrryl)... residue is taken up in about 200 ml of methylene chloride and made alkaline, while **cooling** with ice, with 5-N sodium hydroxide. The organic phase is separated off, washed with...

... concentrated under reduced pressure, the residue dissolved in 100 ml of methylene chloride, with ice- **cooling**, brought to a pH of 8-9 with 2-N sodium hydroxide and vigorously shaken...

... off until the vapor temperature reaches 123 degree(s). The contents of the flask are **cooled** in ice and neutralized with a mixture of 30 ml of glacial acetic acid and...malonic acid diethylester (starting material) is hydrolyzed, while the required reaction product remains unchanged. After **cooling**, the solution is extracted twice, each time with 200 ml of ether. The ethereal solution...

... s) -60 degree(s)) to remove the resulting turbidity, the salt gradually crystallizes out on **cooling**. After drying for 12 hours at 200 Torr, the triethylammonium salt of the [p-(1...

... 40 ml of acetic acid are refluxed for 10 minutes. The reaction mixture is then **cooled** to room temperature, added to 500 ml of ether and 150 ml of 2-N...minutes until the evolution of carbon dioxide stops. The resulting clear, red liquid solidifies on **cooling**.

Recrystallization from a mixture of 8 ml of benzene and 8 ml of cyclohexane yields...

...in a solution of 24 g of sodium hydroxide in 100 ml of water. After **cooling** to room temperature, 100 ml of water, 250 ml of 3-N hydrochloric acid and... degree(s) on an oil bath, after which no evolution of gas is



observed. On **cooling** the reaction product crystallizes. It is dissolved in 3 ml of 1-N sodium hydroxide...

...ether. The aqueous phase is acidified to pH 2 with 2-N hydrochloric acid while **cooling** with ice and the precipitate of methyl-[p-(1-pyrryl)-phenyl]-malonic acid formed is...

...again evaporated and the residue is taken up in 50 ml of hot acetone. On **cooling** 11 g of a mixture precipitates consisting chiefly of the cinchonidin salt of the (-)-2...

... 1.8 g (+)- alpha -phenyl ethylamine in 20 ml of isopropanol is added thereto. On **cooling** 3.2 g of the (+)- alpha -phenyl-ethylamine salt of (+)2-[p-(1-pyrryl)-phenyl]...

19/3,K/18 (Item 5 from file: 652)

DIALOG(R)File 652:US Patents Fulltext

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00596227

Utility

COMPOSITIONS AND METHODS FOR TREATING INFLAMMATION USING SUBSTITUTED NICOTINIC ACIDS

PATENT NO.: 3,689,653

ISSUED: September 05, 1972 (19720905)

INVENTOR(s): Sherlock, Margaret H., Bloomfield, NJ (New Jersey), US (United States of America)

Sperber, Nathan, North Caldwell, NJ (New Jersey), US (United States of America)

ASSIGNEE(s): Schering Comporation, Bloomfield, NJ (New Jersey), US (United States of America)

[Assignee Code(s): 74480]

APPL. NO.: 5-52,671

FILED: July 06, 1970 (19700706)

This application is a division of Ser. No. 790,442, filed 1-10-69 now abandoned, which was a continuation application of our co-pending application, Ser. No. 603,719, filed Dec. 22, 1966 now abandoned, which is a divisional application of our application, Ser. No. 504,125, filed Oct. 23, 1965, now U. S. Pat. No. 3,337,570, which in turn, is a continuation-in-part application of our co-pending application, Ser. No. 329,999, filed Dec. 12, 1963, now abandoned.

FULL TEXT: 873 lines

...side effects.

It is known that the potencies of drugs in delaying the appearance of **erythema** on the **skin** of albino guinea pigs subjected to irradiation with **ultra violet** light are closely correlated with their potencies as anti-inflammatory agents. The U.V. **erythema** test is a standard pharmacological test for determining anti-inflammatory activity certain agents exhibiting anti...of grittiness. Add the slurry to the remainder of the paraben solution and mix while **cooling** to room temperature.

Viii. topical Ointment with Steroid

Formula:

mg/gm

2-(2-methyl-3...

... of grittiness. Add the slurry to the remainder of the paraben solution and mix while **cooling** to room temperature.

Ix. topical Cream

Formula: mg/gm  
2-(2-methyl-3-chloroanilino)-  
nicotinic...

... the sorbitol solution, methyl and propylparabens is added to the melted waxes and mixed while **cooling** until homogeneous.

The 2-(2-methyl-3-chloroanilino)-nicotinic acid with the remainder of the ...

...milled slurry is added to the cream base and the entire product is mixed while **cooling** to room temperature until uniform.

X. topical Cream with Steroid

Formula mg/gm  
2-(2...

... the sorbitol solution, methyl and propylparabens is added to the melted waxes and mixed while **cooling** until homogeneous.

The 2-(2-3-chloroanilino)- nicotinic acid and betamethasone ...milled slurry is added to the cream base and the entire product is mixed while **cooling** to room temperature until uniform.

Xi. topical Cream

Formula: mg/gm  
2-(2-methyl-3...

... the sorbitol solution, methyl and propylparabens is added to the melted waxes and mixed while **cooling** until homogeneous.

The 2-(2-methyl-3-chloroanilino)-nicotinic acid with the remainder of the ...

...milled slurry is added to the cream base and the entire product is mixed while **cooling** to room temperature until uniform.

Xii. topical Cream with Steroid

Formula: mg/gm  
2-(2...

... the sorbitol solution, methyl and propylparabens is added to the melted waxes and mixed while **cooling** until homogeneous.

The 2-(2-methyl-3-chloroanilino)-nicotinic acid and betamethasone alcohol with the...

...milled slurry is added to the cream base and the entire product is mixed while **cooling** to room temperature until uniform

DOSAGE FORMS

I. Ophthalmic or Otic Suspension - Sterile  
2-(2...

... dissolving the remaining components in order listed. The product is prepared to final volume after **cooling** to 25 degree(s) C by addition of sufficient purified water. The product is filtered...

19/3,K/19 (Item 6 from file: 652)  
DIALOG(R)File 652:US Patents Fulltext  
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00583525

Utility

SUBSTITUTED PHENYLACETIC ACIDS AND ESTERS THEREOF  
[ANTIINFLAMMATORY AGENTS; ANALGESICS; ANTIPYRETICS]

PATENT NO.: 3,673,212  
ISSUED: June 27, 1972 (19720627)  
INVENTOR(s): Denss, Rolf, Basel, CH (Switzerland)  
Clauson-Kaas, Niels, Farum, DK (Denmark)  
Ostermayer, Franz, Riehen, CH (Switzerland)  
ASSIGNEE(s): Geigy Chemical Corporation, Ardsley, NY (New York), US (United States of America)  
[Assignee Code(s): 33552]  
APPL. NO.: 5-43,637  
FILED: April 29, 1970 (19700429)  
PRIORITY: 15768-66, CH (Switzerland), October 31, 1966 (19661031)  
713-67, CH (Switzerland), January 18, 1967 (19670118)  
11178-67, CH (Switzerland), August 1, 1967 (19670801)

This application is a division of application Ser. No. 679,224, filed Oct. 30, 1967, now U.S. Pat. No. 3,579,535.

FULL TEXT: 1498 lines

... diastereomers, from which the more difficulty soluble one is separated, optionally after concentration and/or **cooling**. Such organic solutions are chosen wherein the two enantiomeric salts have the greatest difference in ... can be demonstrated by the ability of the inventive compounds to delay the appearance of **erythema** in the **skin** of guinea pigs exposed to **ultraviolet** light, when administered before the application of the U.V. radiation.

For example, 2-[p... 590 ml water preheated to 40 degree(s) emulsified therein. The emulsion is stirred until **cooled** to room temperature and then filled into vials.

The following examples further illustrate the production...

... 5-dimethoxy-tetrahydrofuran in 40 ml of acetic acid are refluxed for 30 minutes. After **cooling**, the reaction solution is poured into 160 ml of water. The precipitated crystals are filtered...undissolved. The resulting suspension of crude acid chloride is added dropwise within an hour, while **cooling** with ice, to a mixture of 200 ml 0.6-N ethereal diazomethane solution and... mol) of potassium hydroxide in 70 ml of methanol and 10 ml of water. After **cooling**, the reaction solution is mixed with water and made acid with conc. hydrochloric acid. The...

... in a Soxhlet apparatus. The ethereal suspension so obtained is concentrated to 50 ml and **cooled** to -20 degree(s). The substance which crystallizes out is filtered off, washed twice with... It is refluxed for 3 hours until all of the magnesium is dissolved. To the **cooled** clear solution there is added while stirring vigorously, an ethereal solution of 21.5 g...

... product separates as a viscous mass. The reaction mixture is refluxed for another half hour, **cooled** on ice and decomposed with about 100 ml of 2-N sulphuric acid until the...

... is treated with charcoal, brought to pH 1-2 with 2-N hydrochloric acid and **cooled**. The resulting crystalline precipitate is filtered off under suction, washed neutral with water and dried...

... 5 ml of thionylchloride and 10 ml of benzene is added dropwise while stirring and **cooling** with ice at 10 degree(s) -20 degree(s), to a solution of 20.7...

... ml of concentrated sulphuric acid in 65 ml of methanol. The reaction mixture is then **cooled** to 0 degree(s) and poured onto ice water. The crude 2-[p-(1-pyrryl... residue is taken up in about 200 ml of methylene chloride and made alkaline, while **cooling** with ice, with 5-N sodium hydroxide. The organic phase is separated off, washed with...

... concentrated under reduced pressure, the residue dissolved in 100 ml of methylene chloride, with ice- **cooling**, brought to a pH of 8-9 with 2-N sodium hydroxide and vigorously shaken...

... off until the vapor temperature reaches 123 degree(s). The contents of the flask are **cooled** in ice and neutralized with a mixture of 30 ml of glacial acetic acid and... malonic acid diethylester (starting material) is hydrolyzed, while the required reaction product remains unchanged. After **cooling**, the solution is extracted twice, each time with 200 ml of ether. The ethereal solution...

... s) -60 degree(s)) to remove the resulting turbidity, the salt gradually crystallizes out on **cooling**. After drying for 12 hours at 200 Torr, the triethylammonium salt of the [p-(1...

... 40 ml of acetic acid are refluxed for 10 minutes. The reaction mixture is then **cooled** to room temperature, added to 500 ml of ether and 150 ml of 2-N... minutes until the evolution of carbon dioxide stops. The resulting clear, red liquid solidifies on **cooling**. Recrystallization from a mixture of 8 ml of benzene and 8 ml of cyclohexane yields...

... in a solution of 24 g of sodium hydroxide in 100 ml of water. After **cooling** to room temperature, 100 ml of water, 250 ml of 3-N hydrochloric acid and... degree(s) on an oil bath, after which no evolution of gas is observed. On **cooling** the reaction product crystallizes. It is dissolved in 3 ml of 1-N sodium hydroxide...

... ether. The aqueous phase is acidified to pH 2 with 2-N hydrochloric acid while **cooling** with ice and the precipitate of methyl-[p-(1-pyrryl)-phenyl]-malonic acid formed is...

... again evaporated and the residue is taken up in 50 ml of hot acetone. On **cooling** 11g of a mixture precipitates consisting chiefly of the cinchonidin salt of the (-)-2-[p...

... 1.8 g (+)- alpha -phenyl ethylamine in 20 ml of isopropanol is added

thereto. On cooling 3.2 g of the (+)- alpha -phenyl)-ethylamine salt of (+)-2-[p-(1-pyrryl)-phenyl...

19/3,K/20 (Item 7 from file: 652)  
DIALOG(R)File 652:US Patents Fulltext  
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00581038

Utility  
SUNSCREEN FORMULATION CONTAINING TRIETHANOLAMINE NEUTRALIZED  
2-HYDROXY-4-METHOXY-BENZOPHENONE-5-SULFONIC ACID

PATENT NO.: 3,670,074  
ISSUED: June 13, 1972 (19720613)  
INVENTOR(s): Doner, deceased, Abraham J., late of North Miami Beach, FL  
(Florida), US (United States of America), BY Cyril Doner,  
executor  
ASSIGNEE(s): Miles Laboratories, Inc , Elkhart, IN (Indiana), US (United  
States of America)  
[Assignee Code(s): 55496]  
APPL. NO.: 5-108,961  
FILED: January 22, 1971 (19710122)

#### CROSS-REFERENCE TO RELATED APPLICATIONS

This is a continuation-in-part application of application Ser. No. 698,679 filed Dec. 18, 1967, now abandoned. Attention is also directed to prior application Ser. No. 358,616 filed Apr. 8, 1964, now abandoned.

FULL TEXT: 410 lines

... or substantially minimizes the photochemical degradation and other adverse effects caused by exposure of human **skin** to sunlight through the absorption of **ultraviolet** wave lengths. The sunscreen agents of the invention absorb or screen radiation wave lengths responsible for **erythema** on human **skin** , minimizes the aging effects of solar radiation on humans and inhibits freckling or irregular pigmentation...to the gel mixture with continuous agitation. The agitation is continued until the resultant formulation **cools** to room temperature. In order to provide maximum smoothness and stability, the formulation is subjected...170 angstroms, with maximal effects at about 2,970 angstroms.) The M.E.D. (Minimal **Erythema** Dose) for each volunteer was established on the abdomen and the back with the **ultraviolet** lamp at a distance of thirty inches. The various formulations studied were applied by hand and rubbed into a **skin** area in the same manner as an individual does before being exposed to the sun...

19/3,K/21 (Item 8 from file: 652)  
DIALOG(R)File 652:US Patents Fulltext  
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00576956

Utility  
SUBSTITUTED PHENYLACETIC ACIDS AND ESTERS THEREOF  
[ANTIINFLAMMATORY AGENTS, ANALGESICS AND ANTIPYRETICS]

PATENT NO.: 3,665,011  
ISSUED: May 23, 1972 (19720523)

INVENTOR(s): Denss, Rolf, Basel, CH (Switzerland)  
Clauson-Kaas, Niels, Farum, DK (Denmark)  
Ostèrmayer, Franz, Riehen, CH (Switzerland)  
ASSIGNEE(s): Ciba-Geigy Corporation, US (United States of America)  
[Assignee Code(s): 2]  
APPL. NO.: 5-43,648  
FILED: April 29, 1970 (19700429)  
PRIORITY: 15768-66, CH (Switzerland), October 31, 1966 (19661031)  
713-67, CH (Switzerland), January 31, 1967 (19670131)  
11178-67, CH (Switzerland), August 7, 1967 (19670807)

This application is a division of application Ser. No. 679,224, filed Oct. 30, 1967, now U.S. Pat. No. 3,579,535.

FULL TEXT: 1482 lines

... diastereomers, from which the more difficulty soluble one is separated, optionally after concentration and/or **cooling**. Such organic solutions are chosen wherein the two enantiomeric salts have the greatest difference in ... can be demonstrated by the ability of the inventive compounds to delay the appearance of **erythema** in the **skin** of guinea pigs exposed to **ultraviolet** light, when administered before the application of the U.V. radiation.

For example, 2-[p... 590 ml. water preheated to 40 degree(s) emulsified therein. The emulsion is stirred until **cooled** to room temperature and then filled into vials.

The following examples further illustrate the production... 5-dimethoxy-tetrahydrofuran in 40 ml. of acetic acid are refluxed for 30 minutes. After **cooling**, the reaction solution is poured into 160 ml. of water. The precipitated crystals are filtered...undissolved. The resulting suspension of crude acid chloride is added dropwise within an hour, while **cooling** with ice, to a mixture of 200 ml. 0.6-N ethereal diazomethane solution and...mol) of potassium hydroxide in 70 ml. of methanol and 10 ml. of water. After **cooling**, the reaction solution is mixed with water and made acid with cone, hydrochloric acid. The...

... in a Soxhlet apparatus. The ethereal suspension so obtained is concentrated to 50 ml. and **cooled** to -20 degree(s). The substance which crystallizes out is filtered off, washed twice with...

... It is refluxed for 3 hours until all of the magnesium is dissolved. To the **cooled** clear solution there is added while stirring vigorously, an ethereal solution of 21.5 g...

... product separates as a viscous mass. The reaction mixture is refluxed for another half hour, **cooled** on ice and decomposed with about 100 ml. of 2-N sulphuric acid until the...is treated with charcoal, brought to pH 1-2 with 2-N hydrochloric acid and **cooled**. The resulting crystalline precipitate is filtered off under suction, washed neutral with water and dried...

... 5 ml. of thionylchloride and 10 ml. of benzene is added dropwise while stirring and **cooling** with ice at 10 degree(s) -20 degree(s), to a solution of 20.7...

... ml. of concentrated sulphuric acid in 65 ml. of methanol. The reaction mixture is then **cooled** to 0 degree(s) and poured onto ice water. The crude 2-[p-(1-pyrryl... residue is taken up in about 200 ml. of methylene chloride and made alkaline, while **cooling** with ice, with 5-N sodium

hydroxide. The organic phase is separated off, washed with...

...concentrated under reduced pressure, the residue dissolved in 100 ml. of methylene chloride, with ice- **cooling** , brought to a pH of 8-9 with 2-N sodium hydroxide and vigorously shaken...

... off until the vapor temperature reaches 123 degree(s). The contents of the flask are **cooled** in ice and neutralized with a mixture of 30 ml. of glacial acetic acid and...malonic acid diethylester (starting material) is hydrolyzed, while the required reaction product remains unchanged. After **cooling** , the solution is extracted twice, each time with 200 ml. of ether. The ethereal solution...

... s) -60 degree(s)) to remove the resulting turbidity, the salt gradually crystallizes out on **cooling** . After drying for 12 hours at 200 Torr, the triethylammonium salt of the [p-(1...

... 40 ml. of acetic acid are refluxed for 10 minutes. The reaction mixture is then **cooled** to room temperature, added to 500 ml. of ether and 150 ml. of 2-N...minutes until the evolution of carbon dioxide stops. The resulting clear, red liquid solidifies on **cooling** .

Recrystallization from a mixture of 8 ml. of benzene and 8 ml. of cyclohexane yields...

...in a solution of 24 g. of sodium hydroxide in 100 ml. of water. After **cooling** to room temperature, 100 ml. of water, 250 ml. of 3-N hydrochloric acid and...degree(s) on an oil bath, after which no evolution of gas is observed. On **cooling** the reaction product crystallizes. It is dissolved in 3 ml. of 1-N sodium hydroxide...

...ether. The aqueous phase is acidified to pH 2 with 2-N hydrochloric acid while **cooling** with ice and the precipitate of methyl-[p-(1-pyrryl)-phenyl] -malonic acid formed is...

... again evaporated and the residue is taken up in 50 ml. of hot acetone. On **cooling** 11 g. of a mixture precipitates consisting chiefly of the cinchonidin salt of the (-)-2...

... 1.8 g. (+)- alpha -phenyl ethylamine in 20 ml. of isopropanol is added thereto. On **cooling** 3.2 g. of the (+) - alpha -phenyl-ethylamine salt of (+)-2-[p-(1-pyrryl)-phenyl]...

19/3,K/22 (Item 9 from file: 652)

DIALOG(R)File 652:US Patents Fulltext

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00576955

Utility

SUBSTITUTED PHENYLACETIC ACIDS AND ESTERS THEREOF  
[ANTIINFLAMMATORY AGENTS, ANALGESICS AND ANTIPYRETICS]

PATENT NO.: 3,665,010

ISSUED: May 23, 1972 (19720523)

INVENTOR(s): Denss, Rolf, Basel, CH (Switzerland)  
Clauson-Kaas, Niels, Farum, DK (Denmark)  
Ostermayer, Franz, Riehen, CH (Switzerland)

ASSIGNEE(s): Ciba-Geigy Corporation, US (United States of America)  
[Assignee Code(s): 2]

APPL. NO.: 5-43,650  
FILED: April 29, 1970 (19700429)  
PRIORITY: 15768, CH (Switzerland), October 31, 1966 (19661031)  
713, CH (Switzerland), January 31, 1967 (19670131)  
11178, CH (Switzerland), August 7, 1967 (19670807)

The application is a division of copending application Ser. No. 679,224, filed on Oct. 30, 1967, now U.S. Pat. No. 3,579,535.

FULL TEXT: 1481 lines

...diastereomers, from which the more difficultly soluble one is separated, optionally after concentration and/or **cooling**. Such organic solutions are chosen wherein the two enantiomeric salts have the greatest difference in ... can be demonstrated by the ability of the inventive compounds to delay the appearance of **erythema** in the **skin** of guinea pigs exposed to **ultraviolet** light, when administered before the application of the U.V. radiation.

For example, 2-[p... 590 ml water preheated to 40 degree(s) emulsified therein. The emulsion is stirred until **cooled** to room temperature and then filled into vials.

The following examples further illustrate ...5-dimethoxy-tetrahydrofuran in 40 ml of acetic acid are refluxed for 30 minutes. After **cooling**, the reaction solution is poured into 160 ml of water. The precipitated crystals are filtered...undissolved. The resulting suspension of crude acid chloride is added dropwise within an hour, while **cooling** with ice, to a mixture of 200 ml 0.6-N ethereal diazomethane solution and... mol) of potassium hydroxide in 70 ml of methanol and 10 ml of water. After **cooling**, the reaction solution is mixed with water and made acid with conc. hydrochloric acid. The...

... in a Soxhlet apparatus. The ethereal suspension so obtained is concentrated to 50 ml and **cooled** to -20 degree(s). The substance which crystallizes out is filtered off, washed twice with...

... It is refluxed for 3 hours until all of the magnesium is dissolved. To the **cooled** clear solution there is added while stirring vigorously, an ethereal solution of 21.5 g... product separates as a viscous mass. The reaction mixture is refluxed for another half hour, **cooled** on ice and decomposed with about 100 ml of 2-N sulphuric acid until the...

... is treated with charcoal, brought to pH 1-2 with 2-N hydrochloric acid and **cooled**. The resulting crystalline precipitate is filtered off under suction, washed neutral with water and dried...

... 5 ml of thionylchloride and 10 ml of benzene is added dropwise while stirring and **cooling** with ice at 10 degree(s) -20 degree(s), to a solution of 20.7...

... ml of concentrated sulphuric acid in 63 ml of methanol. The reaction mixture is then **cooled** to 0 degree(s) and poured onto ice water. The crude 2-[p-(1-pyrryl... residue is taken up in about 200 ml of methylene chloride and made alkaline, while **cooling** with ice, with 5-N sodium hydroxide. The organic phase is separated off, washed with...

... concentrated under reduced pressure, the residue dissolved in 100 ml of methylene chloride, with ice- **cooling**, brought to a pH of 8-9 with 2-N sodium hydroxide and vigorously shaken...



... off until the vapor temperature reaches 123 degree(s). The contents of the flask are **cooled** in ice and neutralized with a mixture of 30 ml of glacial acetic acid and...malonic acid diethylester (starting material) is hydrolyzed, while the required reaction product remains unchanged. After **cooling**, the solution is extracted twice, each time with 200 ml of ether. The ethereal solution...

... s) -60 degree(s)) to remove the resulting turbidity, the salt gradually crystallizes out on **cooling**. After drying for 12 hours at 200 Torr, the triethylammonium salt of the [p-(1...

... 40 ml of acetic acid are refluxed for 10 minutes. The reaction mixture is then **cooled** to room temperature, added to 500 ml of ether and 150 ml of 2-N...minutes until the evolution of carbon dioxide stops. The resulting clear, red liquid solidifies on **cooling**. Recrystallization from a mixture of 8 ml of benzene and 8 ml of cyclohexane yields...

...in a solution of 24 g of sodium hydroxide in 100 ml of water. After **cooling** to room temperature, 100 ml of water, 250 ml of 3-N hydrochloric acid and... degree(s) on an oil bath, after which no evolution of gas is observed. On **cooling** the reaction produce crystallizes. It is dissolved in 3 ml of 1-N sodium hydroxide...

...ether. The aqueous phase is acidified to pH 2 with 2-N hydrochloric acid while **cooling** with ice and the precipitate of methyl-[p-(1-pyrryl)-phenyl]-malonic acid formed is...

...again evaporated and the residue is taken up in 50 ml of hot acetone, On **cooling** 11g of a mixture precipitates consisting chiefly of the cinchonidin salt of the (-)-2-[p...

... 1.8 g (+)- alpha -phenyl ethylamine in 20 ml of isopropanol is added thereto. On **cooling** 3.2 g of the (+)- alpha -phenyl-ethylamine salt of (+)-2-[p-(1-pyrryl)-phenyl...

19/3,K/23 (Item 10 from file: 652)

DIALOG(R)File 652:US Patents Fulltext

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00574771

Utility

APPARATUS FOR GENERATING ULTRA VIOLET LIGHT

PATENT NO.: 3,662,175

ISSUED: May 09, 1972 (19720509)

INVENTOR(s): Davidson, George L., Cincinnati, OH (Ohio), US (United States of America)  
Beltramo, Renaldo M., Cincinnati, OH (Ohio), US (United States of America)

ASSIGNEE(s): Tuttle, Incorporated, Cincinnati, OH (Ohio), US (United States of America)

APPL. NO.: 4-886,987

FILED: December 22, 1969 (19691222)

FULL TEXT: 185 lines

... be utilized. The apparatus as shown in FIG. 1 is for clinical use to test **erythema** effect on human **skin**. In such a case the filter 32 is designed to be relatively sharp cut at the desired **UV** wave length such as 296.7 nanometers. The device would be used by contacting the...

... IR generation heat problems are minimized and discomfort to the patient is avoided. Some air **cooling** , via a small fan (not shown) could be provided to cool the filter 32.

The...

19/3,K/24 (Item 1 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

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4394194 \*\*IMAGE Available

Derwent Accession: 2000-637818

Utility

REASSIGNED

M/ Skin light exposure control methods

Inventor: Chubb, Charles R., 1737 Florine, St. Charles, MO, 63301

Rottler, Lisa C., 4560 Washington, Florissant, MO, 63033

Assignee: Unassigned

Unassigned Or Assigned To Individual (Code: 68000)

Examiner: Husar, Stephen (Art Unit: 285)

Combined Principal Attorneys: Cummings, Henry W.

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 6129438	A	20001010	US 99267955	19990312
Division	Pending			US 97957686	19971024
Division	Abandoned			US 95572110	19951214

Fulltext Word Count: 18186

Summary of the Invention:

...for the addition of irradiation lamps in back. The air blades provide air circulation for **cooling** of the seated individual. The air **cooling** helps to compensate for the additional heat from the lamps...As discussed by Scott, 69: "There are certain **skin** conditions in which the application of **ultraviolet** radiation may lead to an exacerbation. These include the acute onset of psoriasis, acute eczema, lupus **erythematosus** , herpes simplex, and xeroderma pigmentosum. There are also ...males and usually caused by sunlight and not by high doses of artificial light. The **skin** eruption usually begins in the spring. Hawk lists twenty one diseases exacerbated by excess **ultraviolet** radiation: acne, actinic folliculitis, atropic eczema, carcinoid syndrome, cutaneous T-cell lymphoma, dermatomyositis, disseminated superficial actinic porokeratosis (DSAP), **erythema** multiforme, familial benign chronic pemphigus (Hailey--Hailey disease), keratosis follicularis (Darier's disease), lichen planus...

Description of the Invention:

...83. Westerhof, W., Estevez-Uscanga, Oscar et al.: The relation between constitutional **skin** color and photosensitivity estimated from UV -induced **erythema** and pigmentation dose-response curves. J. Invest. Dermatol. 94:812-816; 1990

19/3,K/25 (Item 2 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

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4388050

Derwent Accession: 2000-664079

Utility

C/ Sunblocking polymers and their novel formulations

; COMBINING TWO ULTRAVIOLET A AND B ABSORBING ACRYLIC POLYMERS COMPRISING AN UNSUBSTITUED ACRYLIC ACID OR SUBSTITUTED ACRYLIC ACID WITH A SIDE CHAIN HAVING OXYGEN OR NITROGEN ATOM COVALENTLY ATTACHED TO POLYACRYLIC ACID WITH A CARRIER

Inventor: Sovak, Milos, La Jolla, CA

Terry, Ronald C., San Diego, CA

Douglass, III, James G., San Diego, CA

Bakir, Farid, Del Mar, CA

Brown, Jason, Encinitas, CA

Cugley, Peter, San Diego, CA

Assignee: Biophysica, Inc. (02), La Jolla, CA

Biophysica Foundation (Code: 14158)

Examiner: Dodson, Shelley A. (Art Unit: 166)

Combined Principal Attorneys: Rowland, Bertram I.Rae-Venter Law Group, P.C.

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 6123928	A	20000926	US 98119836	19980721
CIP	Abandoned			US 9846945	19980323
CIP	US 5741924	A		US 95490316	19950614
CIP	US 5487885	A		US 93164881	19931209
CIP	Abandoned			US 92994426	19921221

Fulltext Word Count: 8167

Description of the Invention:

...1.05 moles). 100 ml of H<sub>2</sub>O were added, with stirring and **cooling** to 0-5[degree(s)] C., followed by 4.0 eq of acryloyl chloride. After...10 g, 51 mmol, 1.00 eq) was dissolved in 40 ml of THF. After **cooling** to 5[degree(s)] C., acryloyl chloride (4.62 g, 51 mmol, 1.00 eq ...moles) was dissolved in 650 ml dimethylacetamide and triethylamine (91.52 g, 0.9043 moles), **cooled** to -15[degree(s)] C., and methacryloyl chloride (94.53 g, 0.9043 moles) was...

...with acetonitrile and dried, then refluxed in 1.5 L methanol for 1.5 hours, **cooled** and filtered, washed with methanol, and vacuum dried to yield 177 g solid (69...

...mixture of water (20 ml), ethanol (50 ml) and 5 N NaOH (37 ml). After **cooling** to 10[degree(s)] C., acryloyl chloride (8.58 g, 0.095 moles) was added...mmol) was dissolved in 10 ml chloroform and triethylamine (1.113 g, 11 mmol). After **cooling** to -25[degree(s)] C., ethyl chloroformate (1.193 g, 11 mmol) in 3 ml...was dissolved in ethyl acetate (300 ml) and a catalytic amount of methanesulfonic acid, and **cooled** to 0-4[degree(s)] C. Dihydropyran (204 ml, 2.20 moles, 4.0 eq...00 g, 41.62 mmol) was dissolved in THF (25.0 ml). The solution was **cooled** to 0[degree(s)] C. and diazobicycloundecene (DBU) (7.50 ml, 50.00 mmol) was ...mixture of CH<sub>2</sub>Cl<sub>2</sub> (250 ml) and pyridine (25 ml) and **cooled** to 0-5[degree(s)] C. Methanesulfonyl chloride (9.28 ml, 120 mmol) was addedIn accordance with the invention, novel compositions are provided which give **skin** protection from **erythema**, carcinogenicity and other deleterious effects of **ultraviolet** radiation, while being biologically inert and invisible. The compositions have good retentive capability, provide a smooth coating on the **skin**, and do not penetrate into the dermal layer, where the currently used aromatic light absorbing...

19/3,K/26 (Item 3 from file: 654)  
DIALOG(R)File 654:US PAT.FULL.  
(c) FORMAT ONLY 2003 THE DIALOG CORP. All rts. reserv.

4269437 \*\*IMAGE Available  
Derwent Accession: 2000-160100

**Utility**

**M/ Skin light exposure control methods**

Inventor: Chubb, Charles R., P.O. Box 1445, St. Charles, MO, 63302-1445  
Rottler, Lisa C., 4560 Washington, Florissant, MO, 63303

Assignee: Unassigned  
Unassigned Or Assigned To Individual (Code: 68000)

Examiner: Dvorak, Linda C. M. (Art Unit: 379)

Assistant Examiner: Kearney, Rosiland

Combined Principal Attorneys: Cummings, Henry W.

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 6017360	A	20000125	US 98195502	19981111
Continuation	Pending			US 97934945	19970922
Continuation	Abandoned			US 95572110	19951214

Fulltext Word Count: 16838

**Summary of the Invention:**

...for the addition of irradiation lamps in back. The air blades provide air circulation for **cooling** of the seated individual. The air **cooling** helps to compensate for the additional heat from the lamps...As discussed by Scott, 69: "There are certain **skin** conditions in which the application of **ultraviolet** radiation may lead to an exacerbation. These include the acute onset of psoriasis, acute eczema, lupus **erythematosus**, herpes simplex, and xeroderma pigmentosum. There are also some general conditions in which irradiation should...males and usually caused by sunlight and not by high doses of artificial light. The **skin** eruption usually begins in the spring. Hawk lists twenty one diseases exacerbated by excess **ultraviolet** radiation: acne, actinic folliculitis, atropic eczema, carcinoid syndrome, cutaneous T-cell lymphoma, dermatomyositis, disseminated superficial actinic porokeratosis (DSAP), **erythema** multiforme, familial benign chronic pemphigus (Hailey-Hailey disease), keratosis follicularis (Darier's disease), lichen planus...

19/3,K/27 (Item 4 from file: 654)  
DIALOG(R)File 654:US PAT.FULL.  
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4229418  
Derwent Accession: 1997-065284

**Utility**

**C/ Sunscreen compositions**

**; CONTAINING LOW AMOUNT INORGANIC SUNSCREEN AGENTS, ANIONIC EMULSIFIERS AND AN OIL COMPONENT, ACHIEVING HIGH SUN PROTECTION FACTORS WITHOUT WHITENESS**

Inventor: Lukenbach, Elvin R., Flemington, NJ  
Naik-Satam, Prakash, Bloomfield, NJ  
Holland, Jean, Doylestown, PA  
Cole, Curtis, Langhorne, PA  
Stutzman, Ralph, San Antonio, TX

Assignee: Johnson & Johnson Consumer Companies, Inc. (02), Skillman, NJ  
Johnson & Johnson Consumer Cos Inc (Code: 56111)  
Examiner: Dodson, Shelley A. (Art Unit: 166)

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 5980871	A	19991109	US 96660130	19960607
CIP	Pending			US 95495734	19950608

Fulltext Word Count: 6777

Summary of the Invention:

...nm) and 400 nm. Ultraviolet radiation of wavelengths between about 290 nm and 320 nm ( **UV** -B region) has been known to rapidly produce damaging effects on the **skin** including reddening or **erythema** , edema, blistering or other **skin** eruptions in more severe cases. Prolonged or chronic exposure to radiation in this wavelength range has been associated with serious **skin** conditions such as actinic keratoses and carcinomas. In recent years, concern has also been expressed...mixed for 5 minutes at high speed. Next, the mixing speed should be reduced and **cooling** begun. When the temperature of the batch reaches 40-45[degree(s)] C., Dowicil 200 reaches 28-32[degree(s)] C., mixing and **cooling** may be discontinued...

...the composition mixed for a period of time of at least about 30 minutes. After **cooling** the pH may then be checked and adjusted if needed, Dowicil, a preservative added as...composition mixed for 30 minutes at 88-92[degree(s)] C. The composition should be **cooled** and, at 40[degree(s)] C., Dowicil 200 solution added as well as optional fragrance...

19/3,K/28 (Item 5 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

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4221196

Derwent Accession: 1997-258919

Utility

C/ Hydrothermal process for making ultrafine metal oxide powders  
; AN AMINO METAL (ESPECIALLY TITANIUM) OXALATE; SUNSCREEN AGENTS

Inventor: Bruno, Salvatore Anthony, Wilmington, DE

Assignee: E. I. du Pont de Nemours and Company (02), Wilmington, DE

Du Pont de Nemours, E I & Co (Code: 25048)

Examiner: Nazario-Gonzalez, Porfirio (Art Unit: 161)

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 5973175	A	19991026	US 9825103	19980217
Division	US 5776239	A		US 97918702	19970822

Fulltext Word Count: 8773

Description of the Invention:

...temperature of about 200-250 degrees C. with agitation for about 2-5 hours, (3) **cooling** the pressure vessel, recovering the ultrafine titanium dioxide product washing and drying the recovered product...After

heating for about 2-5 hours, the pressure vessel is cooled to about 25-50 degrees C. A white titanium dioxide product is recovered from the ...of terrestrial sunlight under defined conditions multiplied by B(1), and the relative effectiveness of UV radiation at a specified wavelength in producing delayed erythema (redness) in human skin. This calculation is described in greater detail in CIE Journal 1987, 6, pp. 17-22...temperature of from about 40 to about 60 degrees C. The resulting clear solution was cooled to about 25 degrees C. Concentrated ammonium hydroxide solution was added dropwise over a period...to 205 degrees C. for about 3 hours while gently shaking. The shaker tube was cooled to about 25 degrees C. and the resulting white slurry filtered. The filter cake was...a 5-liter flask that was maintained under a nitrogen atmosphere. The resultant slurry was cooled to about 5 to 10 degrees C. and approximately 569.1 g (3.0 moles...to 205 degrees C. for about 4 hours. The contents of the autoclave were then cooled to about 30 to 50 degrees C. over about 1 hour. The resultant white slurry...about 35 degrees C. to dissolve substantially all of the oxalic acid. The slurry was cooled to about 25-30 degrees C., and then about 137.2 g (1.0 mole...of about 200-205 degrees C. for 3 hours while gently shaking. The bomb was cooled to about 25 degrees C., the resulting white slurry filtered, and the filter cake (46...about 200-205 degrees C. for about 3 hours while gently shaking. The bomb was cooled to about 25 degrees C., the resulting bluish gray slurry was filtered and the filter...into a 3-liter flask that was maintained under a nitrogen atmosphere. The slurry was cooled to about 5-10 degrees C. Anhydrous aluminum chloride about 133.4 g (1.0...of about 200-205 degrees C. for 3 hours while gently shaking. The bomb was cooled to about 25 degrees C., the resulting thick paste was filtered and the filter cake...was at a temperature of from about 42-59 degrees C. The resulting solution was cooled to about 25 degrees C. Concentrated ammonium hydroxide solution was added dropwise over about 35...about 200-205 degrees C. for a period of about 3 hours. The bomb was cooled to about 25 degrees C., the resulting white slurry was filtered and the filter cake...a temperature of from about 42-62 degrees C. The resulting light yellow solution was cooled to about 25-30 degrees C. Concentrated ammonium hydroxide solution was added dropwise over about...about 200-205 degrees C. for about 3 hours while gently shaking. The bomb was cooled to about 25 degrees C., the resulting white slurry filtered and the filter cake washed...temperature from about 39 degrees C. to about 55 degrees C. The resulting solution was cooled to about 23 degrees C. Concentrated ammonium hydroxide (about 29.5% NH<sub>3</sub>) was...a temperature of about 200-205 degrees C. for about 3 hours. The bomb was cooled to about 25 degrees C., the resulting white slurry was filtered, and the filter cake...

19/3,K/29 (Item 6 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

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4132482 \*\*IMAGE Available

Derwent Accession: 1999-254061

#### Utility

#### E/ Skin light exposure control methods

Inventor: Chubb, Charles R., 1737 Florine, St. Charles, MO, 63303

Rottler, Lisa C, 4560 Washington, Floressant, MO, 63033

Assignee: Unassigned

Unassigned Or Assigned To Individual (Code: 68000)

Examiner: Spyrou, Cassandra (Art Unit: 282)

Assistant Examiner: Schuberg, Darren E.

Combined Principal Attorneys: Cummings, Henry W.

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 5892619	A	19990406	US 97957689	19971024
Division	Abandoned			US 95572110	19951214

Fulltext Word Count: 18075

Summary of the Invention:

...for the addition of irradiation lamps in back. The air blades provide air circulation for **cooling** of the seated individual. The air **cooling** helps to compensate for the additional heat from the lamps...As discussed by Scott, 69: "There are certain **skin** conditions in which the application of **ultraviolet** radiation may lead to an exacerbation. These include the acute onset of psoriasis, acute eczema, lupus **erythematosus**, herpes simplex, and xeroderma pigmentosum. There are also some general conditions in which irradiation should...males and usually caused by sunlight and not by high doses of artificial light. The **skin** eruption usually begins in the spring: Hawk lists twenty one diseases exacerbated by excess **ultraviolet** radiation: acne, actinic folliculitis, atopic eczema, carcinoid syndrome, cutaneous T-cell lymphoma, dermatomyositis, disseminated superficial actinic porokeratosis (DSAP), **erythema** multiforme, familial benign chronic pemphigus (Hailey-Hailey disease), keratosis follicularis (Darier's disease), lichen planus...

Description of the Invention:

...83. Westerhof, W., Estevez-Uscanga, Oscar et al.: The relation between constitutional **skin** color and photosensitivity estimated from UV -induced **erythema** and pigmentation dose-response curves. J. Invest. Dermatol. 94:812-816;1990...

19/3,K/30 (Item 7 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

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4122776 \*\*IMAGE Available

Derwent Accession: 1999-214262

Utility

E/ **Skin light exposure control methods**

Inventor: Chubb, Charles R., 1737 Florine, St. Charles, MO, 63301

Rottler, Lisa C., 4560 Washington, Florissant, MO, 63033

Assignee: Unassigned

Unassigned Or Assigned To Individual (Code: 68000)

Examiner: Spyrou, Cassandra C. (Art Unit: 282)

Assistant Examiner: Schuberg, Darren E.

Combined Principal Attorneys: Cummings, Henry W.

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 5883740	A	19990316	US 97957687	19971024
Division	Abandoned			US 95572110	19951214

Fulltext Word Count: 16196

Summary of the Invention:

...for the addition of irradiation lamps in back. The air blades provide air circulation for **cooling** of the seated individual. The air

**cooling** helps to compensate for the additional heat from the lamps...As discussed by Scott, 69: "There are certain **skin** conditions in which the application of **ultraviolet** radiation may lead to an exacerbation. These include the acute onset of psoriasis, acute eczema, lupus **erythematosus**, herpes simplex, and xeroderma pigmentosum. There are also some general conditions in which irradiation should...usually caused by sunlight and not by high doses of artificial light. The **skin** eruption usually begins in the spring. Hawk lists twenty one diseases exacerbated by excess **ultraviolet** radiation: acne, actinic folliculitis, atopic eczema, carcinoid syndrome, cutaneous T-cell lymphoma, dermatomyositis, disseminated superficial actinic porokeratosis (DSAP), **erythema** multiforme, familial benign chronic pemphigus (Hailey-Hailey disease), keratosis follicularis (Darier's disease), lichen planus...

19/3,K/31 (Item 8 from file: 654)  
 DIALOG(R)File 654:US PAT.FULL.  
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4023129 \*\*IMAGE Available  
 Derwent Accession: 1995-090594

**Utility**

C/ Non-steroidal anti-inflammatory fatty acid conjugates and their therapeutic use thereof

; SUSTAINED AND PROLONGED WOUND HEALING AGENTS

Inventor: Whittaker, Robert George, New South Wales, AU  
 Bender, Veronika Judith, New South Wales, AU  
 Reilly, Wayne Gerrard, New South Wales, AU

Assignee: Commonwealth Scientific and Industrial Research Organisation (03)  
 , Campbell, AU

Commonwealth Scientific and Industrial Research Org AU (Code: 19280)

Examiner: Geist, Gary (Art Unit: 124)

Assistant Examiner: Carr, Deborah D.

Law Firm: Lowe, Price, LeBlanc & Becker

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 5792786	A	19980811	US 96592399	19960412
PCT	WO 9504030		19950209	WO 94AU440	19940802
			371:19960412		
			102e:19960412		
Priority				AU 93325	19930802

Fulltext Word Count: 8771

**Summary of the Invention:**

...in DMF (50 ml), HOSu (484 mg, 4.2 mmole) was added. The solution was **cooled** to 0[degree(s)] C. and a solution of DCC (618 mg, 3 mmole) in... 6 mmole) and DIEA (1.25 ml, 7.25 mmole) were added and the solution **cooled** to 0[degree(s)] C. DCC (3 g, 14.5 mmole) dissolved in DCM (20... mmole) and a catalytic amount of DMAP (20 mg) were added and the reaction mixture **cooled** to 0[degree(s)] C. DCC (0.77 g, 3.6 mmole) dissolved in DCM...Chronic exposure of albino hairless mice (SKH-1) to sub- **erythema** doses of **ultraviolet** ( **UV** ) light induces both visible and histological changes in the **skin** (Bissett et al., 1990). Acute exposure to UVB light induces sunburn **erythema** and oedema. Both these effects are transient and disappear within a few days (Reeve et...



19/3,K/32 (Item 9 from file: 654)  
DIALOG(R)File 654:US PAT.FULL.  
(c) FORMAT ONLY 2003 THE DIALOG CORP. All rts. reserv.

4006080 \*\*IMAGE Available  
Derwent Accession: 1997-258919

Utility

C/ Hydrothermal process for making ultrafine metal oxide powders  
; FORMING OXALATE SALT WITH METAL COMPOUND AND AMMONIA, FILTRATION AFTER  
REACTION WITH WATER

Inventor: Bruno, Salvatore Anthony, Wilmington, DE  
Assignee: E. I. Du Pont de Nemours and Company (02), Wilmington, DE  
Du Pont de Nemours, E I & Co (Code: 25048)  
Examiner: Bell, Mark L. (Art Unit: 118)  
Assistant Examiner: Hertzog, Scott L.

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 5776239	A	19980707	US 97918702	19970822
Continuation	Abandoned			US 95548987	19951027

Fulltext Word Count: 8848

Description of the Invention:

- ...temperature of about 200-250 degrees C. with agitation for about 2-5 hours, (3) **cooling** the pressure vessel, recovering the ultrafine titanium dioxide product washing and drying the recovered product...
- ...After heating for about 2-5 hours, the pressure vessel is **cooled** to about 25-50 degrees C. A white titanium dioxide product is recovered from the...
- ...of terrestrial sunlight under defined conditions multiplied by B(1), and the relative effectiveness of **UV** radiation at a specified wavelength in producing delayed **erythema** (redness) in human **skin**. This calculation is described in greater detail in CIE Journal 1987, 6, pp. 17-22... temperature of from about 40 to about 60 degrees C. The resulting clear solution was **cooled** to about 25 degrees C. Concentrated ammonium hydroxide solution was added dropwise over a period...
- ...to 205 degrees C. for about 3 hours while gently shaking. The shaker tube was **cooled** to about 25 degrees C. and the resulting white slurry filtered. The filter cake was...
- ...a 5-liter flask that was maintained under a nitrogen atmosphere. The resultant slurry was **cooled** to about 5 to 10 degrees C. and approximately 569.1 g (3.0 moles...to 205 degrees C. for about 4 hours. The contents of the autoclave were then **cooled** to about 30 to 50 degrees C. over about 1 hour. The resultant white slurry...about 35 degrees C. to dissolve substantially all of the oxalic acid. The slurry was **cooled** to about 25-30 degrees C., and then about 137.2 g (1.0 mole ...
- ...of about 200-205 degrees C. for 3 hours while gently shaking. The bomb was **cooled** to about 25 degrees C., the resulting white slurry filtered, and the filter cake (46...about 200-205 degrees C. for about 3 hours while gently shaking. The bomb was **cooled** to about 25 degrees C., the

resulting bluish gray slurry was filtered and the filter...into a 3-liter flask that was maintained under a nitrogen atmosphere. The slurry was **cooled** to about 5-10 degrees C. Anhydrous aluminum chloride about 133.4 g (1.0...

...of about 200-205 degrees C. for 3 hours while gently shaking. The bomb was **cooled** to about 25 degrees C., the resulting thick paste was filtered and the filter cake...

...was at a temperature of from about 42-59 degrees C. The resulting solution was **cooled** to about 25 degrees C. Concentrated ammonium hydroxide solution was added dropwise over about 35...about 200-205 degrees C. for a period of about 3 hours. The bomb was **cooled** to about 25 degrees C., the resulting white slurry was filtered and the filter cake...

...a temperature of from about 42-62 degrees C. The resulting light yellow solution was **cooled** to about 25-30 degrees C. Concentrated ammonium hydroxide solution was added dropwise over about...about 200-205 degrees C. for about 3 hours while gently shaking. The bomb was **cooled** to about 25 degrees C., the resulting white slurry filtered and the filter cake washed was **cooled** to about 23 degrees C. Concentrated ammonium hydroxide (about 29.5% NH<sub>3</sub>) was...

...a temperature of about 200-205 degrees C. for about 3 hours. The bomb was **cooled** to about 25 degrees C., the resulting white slurry was filtered, and the filter cake...

19/3,K/33 (Item 10 from file: 654)

DIALOG(R) File 654:US PAT.FULL.

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3985107

Derwent Accession: 1995-276486

#### Utility

C/ Method for preparing storage-stable, ultrafine oil-in-water emulsion nanopigmented sunscreen/cosmetic compositions

Inventor: Allard, Delphine, Colombes, FR

Ascione, Jean-Marc, Paris, FR

Hansenne, Isabelle, Paris, FR

Assignee: Societe L'Oreal S.A. (03), Paris, FR

L'Oreal S A FR (Code: 47368)

Examiner: Page, Thurman K. (Art Unit: 152)

Assistant Examiner: Faulkner, S.

Law Firm: Burns, Doane, Swecker & Mathis, L.L.P.

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 5756110	A	19980526	US 96759180	19961204
Division	US 5616331	A		US 95386092	19950209
Priority				FR 941455	19940209

Fulltext Word Count: 5086

#### Summary of the Invention:

...human epidermis, and that irradiation of wavelengths of from 280 to 320 nm, i.e., **UV -B**, causes **erythema** and burning of the **skin** which can impair the development of a natural tan; hence, such **UV -B** radiation

must be screened from the skin .

...temperature (>PIT), the emulsion is of the water-in-oil type and, as it **cools** , at the phase inversion temperature, this emulsion inverts to become an emulsion which is now...

19/3,K/34 (Item 11 from file: 654)  
DIALOG(R)File 654:US PAT.FULL.  
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3970058

Derwent Accession: 1998-260563

**Utility**

C/ Sunblocking polymers and their formulation  
; ULTRAVIOLET LIGHT ABSORBING ACRYLIC MONOMERS

Inventor: Sovak, Milos, La Jolla, CA  
Terry, Ronald Calvin, San Diego, CA  
Douglass, III, James Gordon, San Diego, CA  
Bakir, Farid, Del Mar, CA

Assignee: Biophysica Inc. (02), La Jolla, CA  
Biophysica Foundation (Code: 14158)

Examiner: Kulkosky, Peter F. (Art Unit: 152)

Combined Principal Attorneys: Trecartin, Richard F.Flehr Hohbach Test  
Albritton & Herbert LLP

	Publication Number	Kind	Date	Application Number	Filing Date
	-----	--	-----	-----	-----
Main Patent	US 5741924	A	19980421	US 95490316	19950614
CIP	US 5487885	A		US 93164881	19931209
CIP	Abandoned			US 92994426	19921221

Fulltext Word Count: 5652

Description of the Invention:

...ml of H<sub>2</sub>O were added to dissolve sodium salts. With stirring and **cooling** to 0[degree(s)]-5[degree(s)] C., 4.0 eq of acryloyl chloride were...

...10 g, 51 mmol, 1.00 eq) was dissolved in 40 ml of THF. After **cooling** to 5[degree(s)] C., acryloyl chloride (4.62 g, 51 mmol, 1.00 eq...5 g after drying, was refluxed in 3 L methanol for 1.5 hours, then **cooled** , filtered and washed with methanol. After vacuum drying, the solid weighed 262.8 g, yield...

...dissolved in 650 ml dimethylacetamide and triethylamine (91.52 g, 0.9043 moles) and then **cooled** to -15[degree(s)] C. Methacryloyl chloride (94.53 g, 0.9043 moles) was added...

...300 g and then refluxed in 1.5 L methanol for 1.5 hours. After **cooling** to 20[degree(s)]-25[degree(s)] C., the suspension was filtered, washed with methanol...

...mixture of water (20 ml), ethanol (50 ml) and 5 N NaOH (37 ml). After **cooling** to 10[degree(s)] C., acryloyl chloride (8.58 g, 0.095 moles) was quickly...

...mmol) was dissolved in 10 ml chloroform and triethylamine (1.113 g, 11 mmol). After **cooling** to -25[degree(s)] C., chloroethylformate (1.193 g, 11 mmol) in 3 ml chloroform...in ethyl acetate (300 ml) and a catalytic

amount of methanesulfonic acid. The solution was cooled to 0[degree(s)]-4[degree(s)] C. Dihydropyran (204 ml, 2.20 moles, 4...41.62 mmol) was dissolved in freshly distilled THF (25.0 ml). The solution was cooled to 0[degree(s)] C. and diazobicycloundecene (DBU) (7.50 ml, 50.00 mmol) was...In accordance with the invention, novel compositions are provided which give skin and eye protection from erythema, carcinogenicity and other deleterious effects of ultraviolet radiation, while biologically inert. The compositions have good retentive capability, provide a smooth coating on the skin, and do not unduly penetrate into the dermal layer, where the light absorbing moieties could ...

19/3,K/35 (Item 12 from file: 654)  
 DIALOG(R)File 654:US PAT.FULL.  
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3958278

Derwent Accession: 1995-276486

#### Utility

C/ Nanopigmented sunscreen/cosmetic compositions  
 ; METAL OXIDE

Inventor: Allard, Delphine, Colombes, FR  
 Ascione, Jean-Marc, Paris, FR  
 Hansenne, Isabelle, Paris, FR

Assignee: Societe L'Oreal S.A. (03), Paris, FR  
 L'Oreal S A FR (Code: 47368)

Examiner: Page, Thurman K. (Art Unit: 152)

Assistant Examiner: Faulkner, D.

Law Firm: Burns, Doane, Swecker & Mathis, L.L.P.

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 5730993	A	19980324	US 96760317	19961204
Division	US 5616331	A		US 95386092	19950209
Priority				FR 941455	19940209

Fulltext Word Count: 5287

#### Summary of the Invention:

...human epidermis, and that irradiation of wavelengths of from 280 to 320 nm, i.e., UV -B, causes erythema and burning of the skin which can impair the development of a natural tan; hence, such UV -B radiation must be screened from the skin.

...temperature (>PIT), the emulsion is of the water-in-oil type and, as it cools, at the phase inversion temperature, this emulsion inverts to become an emulsion which is now...

19/3,K/36 (Item 13 from file: 654)  
 DIALOG(R)File 654:US PAT.FULL.  
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3923661

Derwent Accession: 1994-341443

#### Utility

REASSIGNED

C/ Compositions for imparting an artificial tan and protecting the skin from ultra-violet radiation

**; CROSSLINKED CATIONIC POLYMER; QUATERNARY AMMONIUM SALT**

Inventor: Deckner, George Endel, Cincinnati, OH  
Pichardo, Francisco Antonio, Cincinnati, OH  
Alban, Noelle Carolyn, Cincinnati, OH  
Sills, Marsha Carolyn, Fairborn, OH  
Assignee: The Procter & Gamble Company (02), Cincinnati, OH  
Procter & Gamble Co The (Code: 68128)  
Examiner: Dodson, Shelley A. (Art Unit: 127)  
Combined Principal Attorneys: Little, Darryl C.; Dabbiere, David K.;  
Rasser, Jacobus C.

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 5700452	A	19971223	US 95576267	19951221
Continuation	Abandoned			US 95371060	19950110
Continuation	Abandoned			US 9373276	19930416

Fulltext Word Count: 7143

**Summary of the Invention:**

...dihydroxy-2-propanone, is a white to off-white, crystalline powder having a characteristic sweet, **cooling** taste. The compound can exist as a mixture of monomers and dimers, with the dimer...to be achieved. SPF is a commonly used measure of photoprotection of a sunscreen against **erythema**. The SPF is defined as the ratio of the **ultraviolet** energy required to produce minimal **erythema** on protected **skin** to that required to produce the same minimal **erythema** on unprotected **skin** in the same individual. See Federal Register, Vol. 43, No. 166, pp. 38206-38269, Aug...

**19/3,K/37 (Item 14 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.  
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3848550

Derwent Accession: 1996-129095

**Utility**

**C/ Substantive water-soluble cationic UV-absorbing compounds  
; CLEANING COMPOUNDS, COSMETICS, SUNSCREEN AGENTS, TANNING LOTION**

Inventor: Gallagher, Kevin F., Lincrest, NJ  
Pereira, Abel G., Belleville, NJ  
Assignee: Croda, Inc. (02), Parsippany, NJ  
Croda Inc (Code: 30261)  
Examiner: Raymond, Richard L. (Art Unit: 129)  
Law Firm: Lerner, David, Littenberg, Krumholz & Mentlik

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 5633403	A	19970527	US 95469499	19950606
Division	Pending			US 94283575	19940801

Fulltext Word Count: 7212

**Summary of the Invention:**

...solutions and hair relaxers, hair coloring products and the like, capable of protecting hair from **UV** -radiation damage, for use in

essentially any color hair. Likewise, an amount of the UV -absorbing compounds of the present invention effective to prevent **erythema** may be formulated with **skin** care products such as **skin** lotions, moisturizers, cleansing creams, liquid hand and body soaps, bath additives, and the like, as...

...washing and bathing with such detergent products leaves a long-lasting substantive amount of the UV -absorbing compounds on the **skin** effective to prevent **erythema** . Thus, the UV -absorbing compounds of the present invention are also useful in detergents and other household cleaning products to impart these products with the ability to protect the **skin** from UV radiation. Such products are also formed by formulating an amount of the UV -absorbing compounds of the present invention effective to prevent **erythema** in conventional detergent and household cleaning product compositions to impart these products with the ability...

19/3,K/38 (Item 15 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

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3830702

Derwent Accession: 1995-276486

Utility

C/ Storage-stable, ultrafine oil-in-water emulsion nanopigmented sunscreen/cosmetic compositions

; HOMOGENEOUSLY DISPERSED PARTICLES OF INORGANIC METAL OXIDE NANOPIGMENTS

Inventor: Allard, Delphine, Colombes, FR

Ascione, Jean-Marc, Paris, FR

Hansenne, Isabelle, Paris, FR

Assignee: L'Oreal (03), Paris, FR

L'Oreal S A FR (Code: 47368)

Examiner: Page, Thurman K. (Art Unit: 152)

Assistant Examiner: Faulkner, D.

Law Firm: Burns, Doane, Swecker & Mathis, L.L.P.

	Publication Number	Kind	Date	Application Number	Filing Date
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Main Patent	US 5616331	A	19970401	US 95386092 .	19950209
Priority				FR 941455	19940209

Fulltext Word Count: 4859

Summary of the Invention:

...human epidermis, and that irradiation of wavelengths of from 280 to 320 nm, i.e., UV -B, causes **erythema** and burning of the **skin** which can impair the development of a natural tan; hence, such UV -B radiation must be screened from the **skin** .

...temperature (>PIT), the emulsion is of the water-in-oil type and, as it **cools** , at the phase inversion temperature, this emulsion inverts to become an emulsion which is now...

19/3,K/39 (Item 16 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

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3817791

Derwent Accession: 1995-351193

**Utility**

**REASSIGNED**

**C/ Artificial tanning compositions having improved color development  
; CONSISTS OF DIHYDROXYACETONE, CERTAIN AMINO ACIDS OR THEIR SALTS, AND A  
TOPICAL CARRIER**

Inventor: Robinson, Larry R., Lebanon, OH

Tanner, Paul R., Maineville, OH

Assignee: The Procter & Gamble Company (02), Cincinnati, OH

Procter & Gamble Co The (Code: 68128)

Examiner: Dodson, Shelley A. (Art Unit: 127)

Combined Principal Attorneys: Sabatelli, Anthony D.; Dabbieri, David K.

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 5603923	A	19970218	US 95533023	19950925
Continuation	Pending			US 94219061	19940329

Fulltext Word Count: 8568

**Description of the Invention:**

...to be achieved. SPF is a commonly used measure of photoprotection of a sunscreen against **erythema**. The SPF is defined as the ratio of the **ultraviolet** energy required to produce minimal **erythema** on protected **skin** to that required to produce the same minimal **erythema** on unprotected **skin** in the same individual. See Federal Register, Vol. 43, No. 166, pp. 38206-38269, Aug...from ultraviolet radiation, but riot so much as to cause any undesirable side effects or **skin** reactions. The term "protection" means that the present compositions attenuate or reduce the amount of **ultraviolet** radiation reaching the **skin**'s surface thereby reducing the incidence of undesirable **skin** reactions such as sunburn, **erythema**, **skin** cancer, and photoinduced **skin** aging. As described above, one commonly used measure of a compositions effectiveness against **ultraviolet** radiation is the SPF factor...is at 35[degree(s)] C., Phase D is added and stirring is continued until **cooled** to room temperature...

19/3,K/40 (Item 17 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

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3815549

Derwent Accession: 1996-129095

**Utility**

**C/ Substantive water-soluble cationic UV-absorbing compounds  
; A CINNAMIDO ALKYL AMINE CATIONIC QUATERNARY SALT FOR PERSONAL CARE  
PRODUCT; COSMETICS, SHAMPOO, SOAPS, LOTIONS; RADIATION RESISTANCE**

Inventor: Gallagher, Kevin F., Lincroft, NJ

Pereira, Abel G., Belleville, NJ

Assignee: Croda, Inc. (02), Parsippany, NJ

Croda Inc (Code: 30261)

Examiner: Venkat, Jyothsna (Art Unit: 152)

Law Firm: Lerner, David, Littenberg, Krumholz & Mentlik

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 5601811	A	19970211	US 94283575	19940801

Fulltext Word Count: 7616

Description of the Invention:

...solutions and hair relaxers, hair coloring products and the like, capable of protecting hair from UV -radiation damage, for use in essentially any color hair. Likewise, an amount of the UV -absorbing compounds of the present invention effective to prevent **erythema** may be formulated with **skin** care products such as **skin** lotions, moisturizers, cleansing creams, liquid hand and body soaps, bath additives, and the like, as...

...washing and bathing with such detergent products leaves a long-lasting substantive amount of the UV -absorbing compounds on the **skin** effective to prevent **erythema** . Thus, the UV -absorbing compounds of the present invention are also useful in detergents and other household cleaning products to impart these products with the ability to protect the **skin** from UV radiation. Such products are also formed by formulating an amount of the UV -absorbing compounds of the present invention effective to prevent **erythema** in conventional detergent and household cleaning product compositions to impart these products with the ability...amine until a base value of 245.75 was reached. The reaction product was then **cooled** to 80[degree(s)] C. and 213 g of a 50:50 w/w ratio...To a stirred pressure vessel fitted with nitrogen, vacuum, heat and **cooling** , and a pressurized methylchloride feed, was added 703 g (2.0 mole equivalents) of the...

...with nitrogen and heated to 75[degree(s)] C. Methyl chloride addition was started and **cooling** and heating were used as needed to maintain the temperature between 75[degree(s)] C...

...a free amine content of less than 2.0% was achieved. The product was then **cooled** to 50[degree(s)] C. and filtered...

...degree(s)] C. until a uniform homogeneous mixture was formed. The resulting mixture was then **cooled** to room temperature with continued mixing...

19/3,K/41 (Item 18 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

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3768985

Derwent Accession: 1996-442385

Utility

REASSIGNED

C/ Water-based formulation for the treatment of sunburn  
; TEA TREE OIL

Inventor: Cohen, Peter D., Edison, NJ

Haight, Carl, Lincoln Park, NJ

Assignee: Water-Jel Technologies, Inc. (02), Carlstadt, NJ

Water-Jel Technologies Inc (Code: 35316)

Examiner: Dodson, Shelley A. (Art Unit: 127)

Law Firm: Kenyon & Kenyon

	Publication Number	Kind	Date	Application Number	Filing Date
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Main Patent	US 5558914	A	19960924	US 94226122	19940411



Fulltext Word Count: 4819

Summary of the Invention:

...has been substantial effort in recent years to reduce or eliminate the risk of sunburn ( **erythema** ) produced by certain wavelengths in the **ultraviolet** ( **UV** ) region of the spectrum, there are still circumstances wherein **skin** becomes exposed to **UV** radiation. Such exposure may, in some cases, cause sunburn that needs to be treated...invention to prepare a water-based composition so as to make use of the effective **cooling** properties of water when it is applied to a sunburned area...water-based formulation having the desired range of properties. It is also contemplated that other **cooling** or numbing agents, such as mentholated or camphor-based products, may be included in the...

19/3,K/42 (Item 19 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

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3696169

Derwent Accession: 1995-320394

Utility

C/ **Benzoylacetate esters as non-sensitizing chelating photo-protectants ; ABSORB ULTRAVIOLET LIGHT, CHELATE METALS TO INHIBIT FORMATION OF FREE RADICALS**

Inventor: Bush, Rodney D., Fairfield, OH

Assignee: The Procter & Gamble Company (02); Cincinnati, OH  
Procter & Gamble Co The (Code: 68128)

Examiner: Chang, Ceila (Art Unit: 123)

Combined Principal Attorneys: Henderson, Loretta J.; Howell, John M.;  
Suter, David L.

	Publication Number	Kind	Date	Application Number	Filing Date
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Main Patent	US 5492690	A	19960220	US 94205969	19940303

Fulltext Word Count: 12111

Description of the Invention:

... **Erythema** is scored (0-3 grading scale, with half grade increments) 24 hours later, using non-exposed adjacent **skin** on each animal as no **UV** control (score=0). A grade of 1.0 (detectable redness over the entire exposure area...particularly UV radiation, and/or other causes of metal-catalyzed free radical production in the **skin** tissue. Such protection by the active compound extends to damage resulting from acute **UV** exposure, e.g. **erythema** . It also extends to protection from damage resulting from chronic **UV** exposure, e.g. photoaging. Such protection also extends to damage resulting from sources of radiation...

19/3,K/43 (Item 20 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

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3690841

Derwent Accession: 1994-234298

Utility

C/ **Sunblocking polymers and their formulation**

**; ACRYLIC POLYMERS WITH PENDANT FUNCTIONAL GROUPS**

Inventor: Sovak, Milos, La Jolla, CA  
Terry, Ronald C., San Diego, CA  
Douglass, III, James G., San Diego, CA  
Bakir, Farid, Del Mar, CA  
Assignee: Biophysica, Inc. (02), La Jolla, CA  
Biophysica Foundation (Code: 14158)  
Examiner: Kulkosky, Peter F. (Art Unit: 152)  
Combined Principal Attorneys: Rowland, Bertram I.

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 5487885	A	19960130	US 93164881	19931209
CIP	Abandoned			US 92994426	19921221

Fulltext Word Count: 5359

**Description of the Invention:**

...In accordance with the invention, novel compositions are provided which give protection from **erythema**, carcinogenecity and other deleterious effects of **ultraviolet** radiation. The compositions have good retentive capability, provide a smooth coating on the **skin**, and do not unduly penetrate into the derreal layer, where the light absorbing moieties could...

**19/3,K/44 (Item 21 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

(c) FORMAT ONLY 2003 THE DIALOG CORP. All rts. reserv.

3656340

Derwent Accession: 1995-051699

**Utility**

**EXPIRED**

**C/ Photoprotection compositions comprising certain chelating agents  
; SUNSCREENS; SUNBLOCKS; ANTIINFLAMMATORIES**

Inventor: Bush, Rodney D., Fairfield, OH

Assignee: The Procter & Gamble Company (02), Cincinnati, OH  
Procter & Gamble Co The (Code: 68128)

Examiner: Rose, Shep (Art Unit: 128)

Combined Principal Attorneys: Hake, Richard A.; Howell, John M.; Suter,  
David L.

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 5456904	A	19951010	US 9383418	19930628

Fulltext Word Count: 10358

**Description of the Invention:**

... **Erythema** is scored (0-3 grading scale, with half grade increments) 24 hours later, using non-exposed adjacent **skin** on each animal as no **UV** control (score =0). A grade of 1.0 (detectable redness over the entire exposure area...particularly UV radiation, and/or other causes of metal-catalyzed free radical production in the **skin** tissue. Such protection by the active compound extends to damage resulting from acute **UV** exposure, e.g. **erythema**. It also extends to protection from damage resulting from chronic **UV** exposure, e.g. photoaging. Such protection

also extends to damage resulting from sources of radiation...

19/3,K/45 (Item 22 from file: 654)  
DIALOG(R)File 654:US PAT.FULL.  
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3637416  
Derwent Accession: 1995-291939  
**Utility**

C/ **Substituted phenyl-1,3-diketones as protectants against skin damage  
; COSMETICS FOR TOPICAL APPLICATION TO SKIN AS SUNSCREEN AGENTS**

Inventor: Bush, Rodney D., Fairfield, OH  
Assignee: The Procter & Gamble Company (02), Cincinnati, OH  
Procter & Gamble Co The (Code: 68128)  
Examiner: Ore, Dale R. (Art Unit: 123)  
Combined Principal Attorneys: Howell, John M.; Graff, IV, Milton B.;  
Yetter, Jerry J.

	Publication Number	Kind	Date	Application Number	Filing Date
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Main Patent	US 5439954	A	19950808	US 91776506	19911011

Fulltext Word Count: 14283

**Description of the Invention:**

...Two hours after the third treatment, the dorsal **skin** of the mice is exposed to 2XMED (minimum **erythema** dose) with a 1000-watt Xenon arc solar simulator. The total **UV** dose is approximately 1.6 J/cm<sup>2</sup>. Twenty-four hours after irradiation, mice are sacrificed by cervical dislocation, and the dorsal **skin** is removed... **Erythema** is scored (0-3 grading scale, with half grade increments) 24 hours later, using non-exposed adjacent **skin** on each animal as no **UV** control (score=0). A grade of 1.0 (detectable redness over the entire exposure area... particularly UV radiation, and/or other causes of metal-catalyzed free radical production in the **skin** tissue. Such protection by the active compound extends to damage resulting from acute **UV** exposure, e.g. **erythema**. It also extends to protection from damage resulting from chronic **UV** exposure, e.g. photoaging. Such protection also extends to damage resulting from sources of radiation...

19/3,K/46 (Item 23 from file: 654)  
DIALOG(R)File 654:US PAT.FULL.  
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3608343  
Derwent Accession: 1995-185035  
**Utility**  
**EXPIRED**

C/ **Alkylmethoxysiloxanes for skin care  
; POLYSILOXANE CONDITIONERS WITH DIMETHYLSILANEDIOL GROUPS FOR FILMS**

Inventor: Giwa-Agbomeirele, Patricia, Midland, MI  
Legrow, Gary E., Midland, MI  
Malczewski, Regina M., Midland, MI  
Assignee: Dow Corning Corporation (02), Midland, MI  
Dow Corning Corp (Code: 24720)  
Examiner: Page, Thurman K. (Art Unit: 152)

Assistant Examiner: Kulkosky, Peter F.  
Combined Principal Attorneys: DeCesare, James L.

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 5413781	A	19950509	US 93131347	19931004
Continuation	Abandoned			US 91642623	19910117
CIP	Abandoned			US 92892838	19920603

Fulltext Word Count: 4658

Description of the Invention:

...Sunscreens are evaluated according to their ability to slow the **erythema** or sunburn resulting from the exposure of **skin** to **ultraviolet** light between about 290-320 nanometers (the **UV -B** region). This is accomplished by absorbing damaging radiation before the radiation contacts the **skin** surface. Paraaminobenzoic acid derivatives and cinnamates such as octyl methoxycinnamate are examples of preferable and ...

...than five centistokes measured at twenty-five degrees Centigrade. These solvent materials provide a non- **cooling** and non-stinging solvent like characteristic and evaporate leaving little or no residue. The solvent...

19/3,K/47 (Item 24 from file: 654)

DIALOG(R) File 654:US PAT.FULL.

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3590518

Derwent Accession: 1995-122867

Utility

REASSIGNED

C/ Photoprotective composition containing yeast extract

Inventor: Donzis, Byron A., 3008 Rodgerdale Rd., Houston, TX, 77042

Assignee: Unassigned

Unassigned Or Assigned To Individual (Code: 68000)

Examiner: Robinson, Douglas W. (Art Unit: 188)

Assistant Examiner: Witz, Jean C.

Combined Principal Attorneys: Shaper, Sue Z.

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 5397773	A	19950314	US 9331758	19930315
CIP	US 5223491	A		US 89435032	19891109

Fulltext Word Count: 2470

Description of the Invention:

...the present invention a composition containing yeast cell wall glucan is topically applied to the **skin** prior to exposure to solar or **UV** radiation. Pretreatment of the **skin** with the photoprotective yeast glucan composition is effective to reduce **UV** -induced **erythema** (sunburn), to prohibit the production of sunburn cells, and to protect Langerhans cells against adverse effects of **UV** radiation...thoroughly dispensed. The mixture was then autoclaved for thirty minutes at approximately 15 psi. After **cooling** to room temperature, the mixture

was centrifuged at 5000XG for 15 minutes. The supernatant was...weeks with the appropriate test preparation. The pretreated areas as well as adjacent areas of **skin** (control) were exposed to a UVB dose equivalent of 1.5 times the minimal **erythema** dose (MED) each day for four consecutive days. Treatment with the topical preparations was continued through the four days of **UV** irradiation. The agents were applied fifteen to thirty minutes before UV exposure. (MED was calculated...The preparation containing the yeast extract in the absence of sunscreens afforded partial protection against **UV** -induced **erythema** . Mild **erythema** was observed in the specimens, however, it was clearly less marked than in untreated **UV** irradiated **skin** .

19/3,K/48 (Item 25 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

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3218608

Derwent Accession: 1991-339251

Utility

REASSIGNED

C/ Substituted-4-thiazolidinone derivatives

; ANTIINFLAMMATORY AGENTS FOR TOPICAL APPLICATION TO SKIN

Inventor: Walsh, David A., Richmond, VA

Uwaydah, Ibrahim M., Chesterfield, VA

Assignee: A. H. Robins Company, Inc. (02), Richmond, VA

Robins, A H Co Inc (Code: 71984)

Examiner: Kilby Scalzo, Catherine S. (Art Unit: 123)

Combined Principal Attorneys: Jackson, Richard K.

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 5061720	A	19911029	US 89406579	19890913

Fulltext Word Count: 21985

Description of the Invention:

...the test drug or reference drug (indomethacin or bromfenac) preparation were immediately rubbed onto the **skin** , either on the area exposed to **UV** light or to an area adjacent to the **UV** light exposed **skin** . The degree of **erythema** for each exposed area was scored at various times following exposure according to the following...

19/3,K/49 (Item 26 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

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3196171

Derwent Accession: 1991-266497

Utility

REASSIGNED

C/ Oil in water emulsion sunscreen composition

Inventor: Strobridge, John R., Comstock Park, MI

Assignee: Amway Corporation (02), Ada, MI

Amway Corp (Code: 04103)

Examiner: Rose, Shep K. (Art Unit: 125)

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 5041281	A	19910820	US 90494736	19900316
CIP	US 4917883	A		US 89324306	19890316

Disclaimer Date: 20070417

Fulltext Word Count: 5646

Summary of the Invention:

...sun. Generally, such sunscreen compositions include active sunscreen agents, such as Padimate O, which absorb **ultraviolet** light in the **erythema** region (280-320 nanometers), i.e. the region linked to **erythema** and **skin** cancer. Those compositions formulated for greater protection typically also include a sunscreen agent, such as oxybenzone, which absorbs **ultraviolet** light in a broader range (e.g. 280-340... After this point, the mixture is forced **cooled** under continuous agitation down to 50[degree(s)] C., at which point, the preservative and fragrance are added. The mixture is force **cooled** to 45[degree(s)] C whereupon it can be immediately packaged or stored for later...

19/3,K/50 (Item 27 from file: 654)

DIALOG(R) File 654:US PAT.FULL.

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3192141

Derwent Accession: 1988-244491

Utility

EXPIRED

C/ Beauty preparations having anti-fading effect and a process for preparing the same

; COSMETICS HAVING ULTRAVIOLET SCREENING EFFECT; DRIED BLOSSOM FLOWER EXTRACT WITH P-DIMETHYLAMINO BENZOIC ACID 2-ETHYL HEXYLESTER

Inventor: Juhos, Tibor, Debrecen, HU

Pal, Veronika, Debrecen, HU

Wladimir nee Pap, Eva, Debrecen, HU

Kristof nee Szvitol, Ilona, Debrecen, HU

Emri nee Harsy, Zsuzsanna, Debrecen, HU

Papp nee Iski, Gabriella, Debrecen, HU

Varga, Csaba, Debrecen, HU

Assignee: Biogal Gyogyszergyar (03), Debrecen, HU

Biogal Gyogyszergyar HU (Code: 11175)

Examiner: Rollins, John W. (Art Unit: 183)

Law Firm: Schweitzer, Cornman & Gross

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 5037641	A	19910806	US 88172566	19880324

Fulltext Word Count: 2544

Description of the Invention:

...of 65[degree(s)]-70[degree(s)] C. under stirring. Then the melt is gradually **cooled** to a temperature of 45[degree(s)]-50[degree(s)] C. and the desired amount...

...together with 5 g of p-dimethylaminobenzoic acid 2-ethyl-hexylester. The mixture is further **cooled** to 25[degree(s)] C. and 3 g of propyleneglycol, 0.5 g of magnesium...

...of p-dimethylaminobenzoic acid 2-ethyl-hexylester are added to the mixture, which is then **cooled** to 20[degree(s)]-25[degree(s)] C., and homogenized with perfume...

...our experience, absorb light between the wavelengths of 200 and 360 nm, they protect the **skin** from **UV** rays that cause **erythema**, and partly filter the directly tanning rays as well. Permanent use of the cosmetics of...

19/3,K/51 (Item 28 from file: 654)  
DIALOG(R) File 654:US PAT.FULL.  
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3169888

Derwent Accession: 1991-171160

Utility

REASSIGNED, EXPIRED

C/ Sunscreen composition and applicator system

; IMPREGNATED FIBROUS SHEET

Inventor: Niedbala, Raymond S., Allentown, PA

Assignee: SolarCare Technologies Corporation (02), Bethlehem, PA

SolarCare Technologies Corp (Code: 25637)

Examiner: Ore, Dale R. (Art Unit: 129)

Law Firm: Panitch Schwarze Jacobs & Nadel

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 5017365	A	19910521	US 90593534	19901003
CIP	Abandoned			US 88191861	19880509

Fulltext Word Count: 4583

Summary of the Invention:

...Sunscreen compositions depend for their efficacy on **ultraviolet** light absorbing chemical agents to block the **erythema** ( **skin** reddening) wave lengths of **ultraviolet** radiation. Zinc oxide, titanium dioxide and talc are representative of physical sun blocking agents and ...

...to decrease the drying time, and to improve the feel of the composition (including the **cooling** effect resulting from evaporation...

19/3,K/52 (Item 29 from file: 654)  
DIALOG(R) File 654:US PAT.FULL.  
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3159859

Derwent Accession: 1991-132235

Utility

EXPIRED

C/ Sunscreen formulation containing a phenyl functional organosilicon compound

; INCREASING ABSORBANCE OF ULTRAVIOLET LIGHT

Inventor: Klimisch, Helen M., Midland County, MI  
Malczewski, Regina M., Midland County, MI  
Assignee: Dow Corning Corporation (02), Midland, MI  
Dow Corning Corp (Code: 24720)  
Examiner: Ore, Dale R. (Art Unit: 129)  
Combined Principal Attorneys: DeCesare, Jim L.

	Publication Number	Kind	Date	Application Number	Filing Date
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Main Patent	US 5008101	A	19910416	US 89446267	19891205

Fulltext Word Count: 3601

Summary of the Invention:

...measured at twenty-five degrees Centigrade. These solvent materials provide to the mixture a non- **cooling** and non-stinging solvent like characteristic, and evaporate leaving little or no residue. Such materials...

...scope of the present invention. Sunscreens are evaluated according to their ability to slow the **erythema** or sunburn resulting from the exposure of **skin** to **ultraviolet** light between about 290-320 nanometers (the **UV0 -B** region). This is accomplished by absorbing damaging radiation before the radiation contacts the **skin** surface. Para-aminobenzoic acid derivatives and cinnamates such as octyl methoxycinnamate are two of the...

19/3,K/53 (Item 30 from file: 654)

DIALOG(R) File 654:US PAT.FULL.

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3091492

Derwent Accession: 1989-124185

Utility

EXPIRED

C/ Photoprotection compositions comprising sorbohydroxamic acid and an anti-inflammatory agent  
; SUNSCREEN AGENTS

Inventor: Bissett, Donald L., Hamilton, OH  
Chatterjee, Ranjit, Fairfield, OH

Assignee: The Procter & Gamble Company (02), Cincinnati, OH  
Procter & Gamble Co The (Code: 68128)

Examiner: Ore, Dale R. (Art Unit: 125)

Combined Principal Attorneys: Graff, IV, Milton B.; Hatfield, Gretchen R.;  
Goldstein, Steven J.

	Publication Number	Kind	Date	Application Number	Filing Date
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Main Patent	US 4946671	A	19900807	US 89346046	19890502
Division	US 4847069	A		US 87112588	19871022

Fulltext Word Count: 18758

Description of the Invention:

...topical use of anti-inflammatory agents to reduce the effects of acute exposure, i.e., **erythema**, to **UV** radiation is known. However, it has now been discovered that the chronic use of anti-inflammatories also



greatly reduces photo-aging of the **skin** resulting from chronic exposure to UV radiation. It has also been discovered that the combination...

...by each active alone. By greater photoprotection is meant both reduction of acute effects of **UV** exposure, e.g., **erythema**, and reduction of chronic effects of **UV** exposure, e.g., premature wrinkling and sagging of the **skin**.

19/3,K/54 (Item 31 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

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3060096

Derwent Accession: 1990-156030

Utility

EXPIRED

C/ Oil in water emulsion sunscreen composition  
; WATERPROOF

Inventor: Strobbridge, John R., Comstock Park, MI

Assignee: Amway Corporation (02), Ada, MI

Amway Corp (Code: 04103)

Examiner: Rose, Shep K. (Art Unit: 125)

Law Firm: Willian Brinks Olds Hofer Gilson & Lione

	Publication Number	Kind	Date	Application Number	Filing Date
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Main Patent	US 4917883	A	19900417	US 89324306	19890316

Fulltext Word Count: 5054

Summary of the Invention:

...sun. Generally, such sunscreen compositions include active sunscreen agents, such as Padimate O, which absorb **ultraviolet** light in the **erythema** region (280-320 nanometers), i.e. the region linked to **erythema** and **skin** cancer. Those compositions formulated for greater protection typically also include a sunscreen agent, such as oxybenzone, which absorbs **ultraviolet** light in a broader range (e.g. 280-340... After this point, the mixture is forced **cooled** under continuous agitation down to 50[degree(s)] C., at which point, the preservative and fragrance are added. The mixture is force **cooled** to 45[degree(s)] C. whereupon it can be immediately packaged or stored for later...

19/3,K/55 (Item 32 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

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3060095

Derwent Accession: 1990-156029

Utility

EXPIRED

C/ Gel-type sunscreen composition

; MIXING SUNSCREEN AGENT, POLYETHYLENE AND BENZOIC ACID ESTERS;  
ANHYDROUS, NON-GREASY

Inventor: Strobbridge, John R., Comstock Park, MI

Assignee: Amway Corporation (02), Ada, MI

Amway Corp (Code: 04103)  
Examiner: Rose, Shep K. (Art Unit: 125)  
Law Firm: Willian Brinks Olds Hofer Gilson & Lione

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 4917882	A	19900417	US 89324564	19890316

Fulltext Word Count: 4706

Summary of the Invention:

...sun. Generally, such sunscreen compositions include active sunscreen agents, such as Padimate O, which absorb **ultraviolet** light in the **erythema** region (280-320 nanometers), i.e. the region linked to **erythema** and **skin** cancer. Those compositions formulated for greater protection typically also include a sunscreen agent, such as oxybenzone, which absorbs **ultraviolet** light in a broader range (e.g. 280-340...the benzoate ester. After the polyethylene is dissolved in the benzoate ester, the mixture is **cooled** while agitating to thereby produce a gelled sunscreen composition...

19/3,K/56 (Item 33 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

(c) FORMAT ONLY 2003 THE DIALOG CORP. All rts. reserv.

3056122 \*\*IMAGE Available

Derwent Accession: 1987-251624

Utility

EXPIRED

C/ Novel phosphoric diesters

; ANTIINFLAMMATORIES; DIESTERS OF ASCORBIC ACID AND ALPHA-, BETA-OR GAMMA-TOCOPHEROLS

Inventor: Yamamoto, Itaru, Okayama, JP

Ogata, Kazumi, Toyonaka, JP

Assignee: Senju Pharmaceutical Co., Ltd. (03), Osaka, JP

Senju Pharmaceutical Co Ltd JP (Code: 02220)

Examiner: Griffin, Ronald W. (Art Unit: 183)

Law Firm: Burgess, Ryan and Wayne

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 4914197	A	19900403	US 8721655	19870304
Priority				JP 4946878	19860304

Fulltext Word Count: 2890

Description of the Invention:

...75 ml of 1N-hydrochloric acid, the solution was refluxed for about 15 minutes. After **cooling**, the reaction mixture was extracted with ethyl acetate and dried over anhydrous sodium sulfate. The...after the final application, said cloth with small holes was applied again and the exposed **skin** areas was irradiated with **ultraviolet** rays at 1700 luxes for 360 seconds. Then, after 1 and 2 hours, respectively, the back was grossly examined for **erythema**.

19/3,K/57 (Item 34 from file: 654)  
DIALOG(R)File 654:US PAT.FULL.  
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3008159  
Derwent Accession: 1989-124146

Utility

EXPIRED

C/ Photoprotection compositions comprising sorbohydroxamic acid  
; SUNSCREEN AGENTS

Inventor: Chatterjee, Ranjit, Fairfield, OH

Kirchner, Stephen J., Madison, CT

Assignee: The Procter & Gamble Company (02), Cincinnati, OH

PROCTER & GAMBLE CO THE (Code: 68128)

Examiner: Ore, Dale R. (Art Unit: 125)

Combined Principal Attorneys: Graff, IV, Milton B.; Hatfield, Gretchen R.;  
Goldstein, Steven J.

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 4869897	A	19890926	US 87112577	19871022

Fulltext Word Count: 19337

Summary of the Invention:

...In addition to the short term hazard of **erythema**, there are also long term hazards associated with **UV** radiation exposure. One of these long term hazards is malignant changes in the **skin** surface. Numerous epidemiologic studies demonstrate a strong relationship between sunlight exposure and human skin cancer...1), 109-113 (1971) (aspirin, fenoprofen). Short-term application of anti-inflammatory agents prior to **UV** exposure to prevent lerythema, as well as application after **UV** exposure to lessen **UV**-induced damage to **skin** has been taught...gms) is dissolved in MeOH (1200 ml) by warming to 60[degree(s)] C. After **cooling** this solution to room temperature, a solution of KOH (453.1 gms) in MeOH (1100...

19/3,K/58 (Item 35 from file: 654)  
DIALOG(R)File 654:US PAT.FULL.  
(c) FORMAT ONLY 2003 THE DIALOG CORP. All rts. reserv.

2983609  
Derwent Accession: 1989-255692

Utility

EXPIRED

C/ Ultraviolet radiation absorbing cyclohexenylidene method  
; SUNSCREEN AGENTS

Inventor: Cleary, Thomas P., Wilmington, DE

Gosciniak, Donald J., West Chester, PA

Phalangas, Charalambos J., Wilmington, DE

Assignee: ICI Americas Inc. (02), Wilmington, DE

ICI AMERICAS INC (Code: 40947)

Examiner: Ore, Dale R. (Art Unit: 125)

	Publication Number	Kind	Date	Application Number	Filing Date

Fulltext Word Count: 3247

Summary of the Invention:

... **Ultraviolet** radiation absorbing coatings are useful in protecting substrates such as plastic resins against accelerated deterioration and the **skin** of warm blooded animals against severe **erythema**, edema and blistering. The compositions of the invention are generally referred to as sunscreen compounds...3 hrs. with continuous removal of water through a Dean Stark trap. The reaction was **cooled** to room temperature and washed with water (1X500 ml), sat. NaHCO<sub>3</sub> (1X500 ml...methoxide powder (0.22 mol) and dry benzene (200 mls) was refluxed for 7 hours, **cooled**, and poured carefully into 10% HCl (200 mls). This mixture was **cooled** and stirred in an ice bath while hexane (200 mls) was added. The resulting slurry...

...under a strong nitrogen flow in a distillation apparatus. After 3 hrs the reaction was **cooled** to room temperature and neutralized with acetic acid. Ethyl acetate (50 mls) was added and...

...400 mls) was refluxed under a Dean-Stark trap for 20 min. The reaction was **cooled** to room temperature and neutralized with acetic acid. Ethyl acetate was added, the organic phase...

...butylamine (0.4 mol) in petroleum ether (340 mls). The flask may have to be **cooled** with an ice bath. After addition, 1N HCl (150 mls) was added and the mixture...

19/3,K/59 (Item 36 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

(c) FORMAT ONLY 2003 THE DIALOG CORP. All rts. reserv.

2983605

Derwent Accession: 1989-124185

Utility

EXPIRED

C/ Photoprotection compositions comprising sorbohydroxamic acid and an anti-inflammatory agent

; SUNSCREEN AGENTS

Inventor: Bissett, Donald Lynn, Hamilton, OH  
Chatterjee, Ranjit, Fairfield, OH

Assignee: The Procter & Gamble Company (02), Cincinnati, OH  
PROCTER & GAMBLE CO THE (Code: 68128)

Examiner: Ore, Dale R. (Art Unit: 125)

Combined Principal Attorneys: Graff, IV, Milton B.; Hatfield, Gretchen R.;  
Goldstein, Steven J.

	Publication Number	Kind	Date	Application Number	Filing Date
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Main Patent	US 4847069	A	19890711	US 87112588	19871022

Fulltext Word Count: 18635

Summary of the Invention:

...In addition to the short term hazard of **erythema**, there are also long term hazards associated with **UV** radiation exposure. One of these long term hazards is malignant changes in the **skin** surface. Numerous

epidemiologic studies demonstrate a strong relationship between sunlight exposure and human skin cancer...1), 109-113 (1971) (aspirin, fenoprofen). Short-term application of anti-inflammatory agents prior to UV exposure to prevent **erythema**, as well as application after UV exposure to lessen UV-induced damage to **skin**, has been taught...gms) is dissolved in MeOH (1200 ml) by warming to 60[degree(s)] C. After **cooling** this solution to room temperature, a solution of KOH (453.1 gms) in MeOH (1100...topical use of anti-inflammatory agents to reduce the effects of acute exposure, i.e., **erythema**, to UV radiation is known. However, it has now been discovered that the chronic use of anti-inflammatories also greatly reduces photo-aging of the **skin** resulting from chronic exposure to UV radiation. It has also been discovered that the combination...

...by each active alone. By greater photoprotection is meant both reduction of acute effects of UV exposure, e.g., **erythema**, and reduction of chronic effects of UV exposure, e.g., premature wrinkling and sagging of the **skin**.

19/3,K/60 (Item 37 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

(c) FORMAT ONLY 2003 THE DIALOG CORP. All rts. reserv.

2955254

Derwent Accession: 1989-001838

Utility

EXPIRED

C/ Skin protective composition

; CONTAINING TITANIUM DIOXIDE AND MICA IN CARRIER

Inventor: Wortzman, Mitchell S., Los Angeles, CA

Assignee: Neutrogena Corporation (02), Los Angeles, CA

NEUTROGENA CORP (Code: 07134)

Examiner: Ore, Dale (Art Unit: 125)

Combined Principal Attorneys: Mybeck, Richard R.

	Publication Number	Kind	Date	Application Number	Filing Date
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Main Patent	US 4820508	A	19890411	US 8765348	19870623

Fulltext Word Count: 5193

Summary of the Invention:

...are formulated in the form of creams, lotions and oils containing as the active agents **ultraviolet** light absorbing chemical compounds. The active chemical compounds act to block the passage of **erythematogenic** radiation, by absorption, thereby preventing its penetration into the **skin**.

...The batch is then **cooled** at a rate of about 0.5[degree(s)] C./minute until a temperature of...

19/3,K/61 (Item 38 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

(c) FORMAT ONLY 2003 THE DIALOG CORP. All rts. reserv.

2931691 \*\*IMAGE Available

Derwent Accession: 1982-95617E

Utility

REASSIGNED, EXPIRED

CM/ Apparatus for use in sunbathing

; ULTRAVIOLET RADIATION B FILTER

Inventor: Sear, John, Coalville, GB England

Assignee: Sevendart Limited, A Limited Company of U.K. (03), Manchester, GB

SEVENDART LTD GB (Code: 19759)

Examiner: Arnold, Bruce Y. (Art Unit: 257)

Law Firm: Holman & Stern

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 4798427	A	19890117	US 86872648	19860610
Continuation	Abandoned			US 84640882	19840815
CIP	Abandoned			US 82439539	19821105
Priority				GB 828633	19820324

Fulltext Word Count: 4684

Summary of the Invention:

...It is now generally recognised that **UV -B** is dangerous to health and excessive natural exposure can lead to sun-burn ( **erythema** ), **skin** ageing and cancer. **UV -A** is apparently harmless at natural intensities and induces **skin** tanning. Visible or white-light has also been considered safe, although there are now reports...

...focussing IR radiation on the cheeks) (See Kligman & Kligman 1984). The similarities between IR and **UV** induced **skin** cancers are strikingly obvious (Kligman 1969). In addition, it seems that **skin** ageing (elastosis and the like), **erythema** ab igne, and cancers, can be produced by either route and indeed there is a...without burning, and they rely heavily on forced air circulation or heat sinks to provide **cooling** and heat dissipation. Nevertheless contamination of the emitted **UV-A** with **UV-B** is now...

19/3,K/62 (Item 39 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

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2913850

Derwent Accession: 1988-330098

Utility

REASSIGNED, EXPIRED

C/ Sunscreen and moisturizer

; POLYGLYCERYL-8 OLEATE, WATERPROOFING

Inventor: Deckner, George E., Westfield, NJ

Assignee: Charles of the Ritz Group Ltd. (02), New York, NY

CHARLES OF THE RITZ GROUP LTD (Code: 09075)

Examiner: Ore, Dale R. (Art Unit: 125)

Law Firm: Lerner, David, Littenberg, Krumholz & Mentlik

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 4781914	A	19881101	US 85804564	19851204

Fulltext Word Count: 3840

Summary of the Invention:

... **Ultraviolet** energy absorbed by the human **skin** can produce an **erythema** reaction (redness), the intensity of which is dependent upon the amount of energy absorbed. **Ultraviolet** radiation from both sunlight and artificial sources has been divided into three bands ( **UV -A**, **UV -B**, and **UV -C**) which emit different quantities of energy and therefore produce an **erythema** reaction at different time intervals after exposure. The amount of energy from any source required to produce a minimally perceptible redness reaction of the **skin** is termed the Minimal Erythema Dose or MED...

...has a wavelength of 320 to 400 nanometers (nm.). It can cause tanning of the **skin** but is weak in causing reddening of the **skin** . About 20 to about 50 joules/cm<sup>2</sup> of **UV -A** energy is required to produce one MED. The **erythema** reaction is maximal in intensity about 24 hours after exposure...

...to 320 nm. It causes the sunburn reaction which also stimulates pigmentation (tanning) in the **skin** . Approximately 20 to 50 millijoules/cm<sup>2</sup> of **UV -B** energy is required to produce one MED (i.e., about 1,000 times less than the dose of **UV -A**). The **erythema** reaction is maximal in intensity at from about 6 to about 20 hours after exposure...

...the individual's capacity to produce melanin pigment within the pigment cells when stimulated by **UV -B** and **UV -A**. The extent of any **erythema** response is a function of **skin** color and thus less time is required to produce a MED in light skinned individuals...water emulsions which are easily spreadable when rubbed onto the skin and impart a pleasant **cooling** effect. However, in rubbing, water evaporates (due to heat and shear forces) and the oil...

19/3,K/63 (Item 40 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

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2869038

Derwent Accession: 1988-132826

Utility

EXPIRED

C/ Ultraviolet radiation absorbing compositions  
; SUNSCREEN LOTION

Inventor: Phalangas, Charalambos J., Wilmington, DE

Wright, Leon W., Wilmington, DE

Assignee: ICI Americas Inc. (02), Wilmington, DE

ICI AMERICAS INC (Code: 40947)

Examiner: Ore, Dale R. (Art Unit: 123)

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 4740369	A	19880426	US 86931083	19861117
Continuation	Abandoned			US 86817501	19860109

Fulltext Word Count: 2127

Description of the Invention:

...emitted green light having approximately 565 nm wavelength from the

surfaces of red or brown **skin** areas. The use of such an apparatus permits a quantative assessment of the affects of treatment of **skin** inflammation or the extent of **erythema** and/or tanning following exposure to **UV** light...

19/3,K/64 (Item 41 from file: 654)  
DIALOG(R)File 654:US PAT.FULL.  
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2720122

Derwent Accession: 1986-218556

Utility

REASSIGNED

C/ Improved sunscreen or sunblock composition

; TRI(HYDROXYALKYL)RUTOSIDE, HUMECTANTS

Inventor: Georgalas, Arthur C. W., Leonardo, NJ

Deckner, George E., Westfield, NJ

Assignee: Charles of the Ritz Group Ltd. (02), New York, NY

CHARLES OF THE RITZ GROUP LTD (Code: 09075)

Examiner: Ore, Dale R. (Art Unit: 123)

Combined Principal Attorneys: Levinson, Lawrence S.; Rodney, Burton

	Publication Number	Kind	Date	Application Number	Filing Date
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Main Patent	US 4603046	A	19860729	US 85768586	19850823

Fulltext Word Count: 5169

Summary of the Invention:

... **Ultraviolet** energy absorbed by the human **skin** can produce an **erythema** reaction (redness), the intensity of which is dependent upon the amount of energy absorbed. **Ultraviolet** radiation from both sunlight and artificial sources has been divided into three bands ( **UV -A**, **UV -B**, and **UV -C**) which emit different quantities of energy and therefore produce an **erythema** reaction at different time intervals after exposure. The amount of energy from any source required to produce to minimally perceptible redness reaction of the **skin** is termed the Minimal Erythema Dose or MED...

...has a wavelength of 320 to 400 nanometers (nm.). It can cause tanning of the **skin** but is weak in causing reddening of the **skin** . About 20 to about 50 joules/cm<sup>2</sup> of **UV -A** energy is required to produce one MED. The **erythema** reaction is maximal in intensity about 24 hours after exposure...

...of 320 nm. It causes the sunburn reaction which also stimulates pigmentation (tanning) in the **skin** . Approximately 20 to 50 millijoules/cm<sup>2</sup> of **UV -B** energy is required to produce one MED (i.e., about 1,000 times less than the dose of **UV -A**). The **erythema** reaction is maximal in intensity at from about 6 to about 20 hours after exposure...

...the individual's capacity to produce melanin pigment within the pigment cells when stimulated by **UV -B** and **UV -A**. The extent of any **erythema** response is a function of **skin** color and thus less time is required to produce a MED in light skinned individuals...this aqueous phase is added to the emulsion with mixing. Thereafter, the final blend is **cooled** to room temperature, homogenized, stored or packaged...



19/3,K/65 (Item 42 from file: 654)  
DIALOG(R)File 654:US PAT.FULL.  
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2712270 \*\*IMAGE Available  
Derwent Accession: 1984-075076

Utility  
EXPIRED

E/ Irradiation device

Inventor: Kerschgens, Johann J., Prinz-Ludwig-Strasse 5, D-8918 Diessen am  
Ammersee, DE

Assignee: Unassigned

UNASSIGNED OR ASSIGNED TO INDIVIDUAL (Code: 68000)

Examiner: Smith, Alfred E. (Art Unit: 256)

Assistant Examiner: Berman, Jack I.

Combined Principal Attorneys: Striker, Michael J.

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 4595838	A	19860617	US 84608940	19840420
PCT	WO 8400897		19840315	WO 83EP227	19830829
			371:19840420		
			102e:19840420		
Priority				DE 3232537	19820901
				DE 3245654	19821209
				DE 3245655	19821209
				DE 8317832	19830618

Fulltext Word Count: 11599

Summary of the Invention:

...addition, it destroys micro-organisms such as bacteria, viruses, spores, yeasts, algae, protozoa, and mildew. **Ultraviolet** rays bring about photo-biological effects in human **skin**. Shortwave **UV** radiation brings about the so-called **UV - erythema** as a result of which the **skin** becomes brown after a few days (indirect pigmentation). On the other hand, large doses in the longwave **UV** -range cause direct pigmentation that can be achieved without **erythema**. The maximum **skin** sensitivity for direct pigmentation is at a wavelength of 360 nm...arranged in the flow of air generated by the blower, in which regard the airflow **cools** the source of radiation such that the instantaneous value of its restriking voltage is less...

...According to a further development of the invention the stream of **cooling** air from the blower is controlled according to the temperature of the UV lamp. This...invention solves the problem that is associated with this in that the UV lamp is **cooled** by a stream of air, this preventing an increase of the restriking voltage to an...

19/3,K/66 (Item 43 from file: 654)  
DIALOG(R)File 654:US PAT.FULL.  
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2699755  
Derwent Accession: 1985-136038

Utility

C/ Novel chalcone derivatives and ultraviolet absorbers comprising the same  
; AROMATIC, UNSATURATED, OXO, OXYESTER

Inventor: Tejima, Tohru, Tochigi, JP  
Nakamura, Koichi, Ichikaimachi, JP  
Hattori, Michihiro, Utsunomiya, JP  
Masuda, Shinichi, Wakayama, JP  
Imokawa, Genji, Utsunomiya, JP  
Takaishi, Naotake, Utsunomiya, JP

Assignee: Kao Corporation (03), Tokyo, JP  
KAO CORP JP (Code: 09051)

Examiner: Helfin, Bernard (Art Unit: 126)

Law Firm: Oblon, Fisher, Spivak, McClelland & Maier

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 4584190	A	19860422	US 84669888	19841109
Priority				JP 46216913	19831117

Fulltext Word Count: 2485

Description of the Invention:

...in an amount of 2 mg/cm<sup>2</sup> and 15 minutes after the application, UV -A irradiation was effected. Twenty four hours after the irradiation, the skin was observed as to whether or not erythema developed and the shortest UV -A irradiation time before erythema was produced on the skin was determined. This shortest time was compared with the shortest UV -A irradiation time before erythema developed on a non-applied skin and a sun-protecting factor (hereinafter abbreviated as SPF) was calculated according to the following equation, from which the skin -protecting effect of the respective compounds was determined. Comparative creams were a cream base alone...heated to 50[degree(s)] C. and agitated for 24 hours. The reaction mixture was cooled down to room temperature, to which were added 2 liters of 12% hydrochloric acid and...

...methylene chloride (20 ml) solution of methyl-branched isostearyl chloride in 10 minutes under ice-cooling and agitating conditions. The mixture was allowed to stand at room temperature overnight and refluxed ...

19/3,K/67 (Item 44 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

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2674614 \*\*IMAGE Available

Derwent Accession: 1984-075076

Utility

EXPIRED

E/ Method of and device for ultraviolet irradiation

Inventor: Kerschgens, Johann J., Arabellastrasse 5/1815, D-8000 Muenchen 81, DE

Assignee: Unassigned

UNASSIGNED OR ASSIGNED TO INDIVIDUAL (Code: 68000)

Examiner: Anderson, Bruce C. (Art Unit: 256)

Assistant Examiner: Guss, Paul A.

Combined Principal Attorneys: Striker, Michael J.

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 4560883	A	19851224	US 83480662	19830331
Priority				DE 3232537	19820901
				DE 3245655	19821209
				DE 3245654	19821209

Fulltext Word Count: 6020

Summary of the Invention:

...transmitting infrared (IR) radiation. The ultraviolet rays of mercury vapor lamps are used in irradiating **skin** in order to achieve therapeutic and cosmetic effects and/or to increase the resistance of the human body. The **ultraviolet** rays, as known, assist in photobiologic effects in the **skin**. The home suns emit short-wave **UV** radiation, particularly UVC radiation which produces initially **erythema** and after several days in indirect pigmentation or tan of the **skin**. On the other hand, high doses of longer **UV** -rays (UVA) lead to a direct pigmentation without the occurrence of **erythema**. The maximum of **skin** sensitivity to direct pigmentation is at the wavelength of about 360 nm. The latter tanning...

...desired tanning effect. Another disadvantage of home suns using IR radiators is the relatively long **cooling** period required between individual operational periods. Evidently, the above disadvantages are less troublesome in the...

19/3,K/68 (Item 45 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

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2579235

Derwent Accession: 1980-15159C

Utility

EXPIRED

C/ **Phenoxyphenyl acetic acids and their medicinal use**

Inventor: Ueda, Ikuo, Toyonaka, JP

Kitaura, Yoshihiko, Suita, JP

Konishi, Nobukiyo, Mukou, JP

Assignee: Fujisawa Pharmaceutical Co., Ltd. (03), Osaka, JP

FUJISAWA PHARMACEUTICAL CO LTD JP (Code: 32600)

Examiner: Jiles, Henry R. (Art Unit: 121)

Assistant Examiner: Whittenbaugh, Robert C.

Law Firm: Oblon, Fisher, Spivak, McClelland & Maier

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 4472433	A	19840918	US 81291498	19810810
Continuation	Abandoned			US 7963088	19790802
Priority				GB 3260978	19780808

Fulltext Word Count: 23063

Summary of the Invention:

...acetone, dioxane, tetrahydrofuran or any other solvent which does not adversely influence the reaction, under **cooling** or at ambient temperature, and preferably in the presence of a conventional inorganic

or organic...adhesive tape with 3 small holes of 9 mm. diameter was placed on the depilated **skin** and then the animal was exposed to ultra-violet radiation from an **ultra - violet** lamp (500 W, manufactured by Engelhard Hanovia Inc.) at a distance of 13 cm. for 80 seconds. Two hours later, the degree of **erythema** was estimated on the basis of the following scores...

19/3,K/69 (Item 46 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

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2570552

Derwent Accession: 1983-760370

Utility

EXPIRED

C/ (3,4-c)-Pyrido psoralens, process of preparation, application in cosmetology and therapeutics, and cosmetological and pharmaceutical composition with them

Inventor: Bisagni, Emile, Orsay, FR

Dubertret, Louis, Paris, FR

Moron, Jacqueline, Gif sur Yvette, FR

Averbeck, Dietrich, L'Hay les Roses, FR

Papadopoulo, Dora, Buc, FR

Blais, Jocelyne, Fontenay aux Roses, FR

Vigny, Paul, Paris, FR

Schwencke, Maria N., Gif sur Yvette, FR

Moustacchi, Ethel, Palaiseau, FR

Nocentini, Silvano, Paris, FR

Zajdela, Francois, Antony, FR

Assignee: Institut National de la Sante et de la Recherche Medicale (07), Paris, FR

INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE FR

(Code: 42342)

Examiner: Daus, Donald G. (Art Unit: 122)

Assistant Examiner: Teoli, Jr., William A.

Law Firm: Oblon, Fisher, Spivak, McClelland & Maier

	Publication Number	Kind	Date	Application Number	Filing Date
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Main Patent	US 4464354	A	19840807	US 83469455	19830224
Priority				FR 823157	19820225

Fulltext Word Count: 6618

Description of the Invention:

...The palladium carbon is filtered hot, washed with 5 ml of hot diphenylether. After **cooling** 500 ml of hexane are added. The resulting precipitate (573 mg) is centrifugally extracted washed...a circular cutaneous surface 3 cm in diameter. The two products were left on the **skin** for 2 hours to insure a sufficient cutaneous penetration. After this period of 2 hours **ultraviolet** A irradiation at 5 J/cm<sup>2</sup> was applied to the two zones tested and no precocious or delayed **erythema** was observed with these doses of irradiation. The same experiment was repeated a second time...

19/3,K/70 (Item 47 from file: 654)

DIALOG(R)File 654:US PAT.FULL.  
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2542262

Derwent Accession: 1982-07073J

**Utility**

**C/ Cosmetic formulations containing oxyethylated diphenylamines as sun screen agents**

Inventor: Oppenlaender, Knut, Ludwigshafen, DE

Strickler, Rainer, Heidelberg, DE

Seib, Karl, Weinheim, DE

Naegele, Paul, Neuhofen, DE

Assignee: BASF Aktiengesellschaft (03), Ludwigshafen, DE

BASF AG DE (Code: 07016)

Examiner: Ore, Dale R. (Art Unit: 123)

Combined Principal Attorneys: Michaels, Joseph D.; Hedden, David L.

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 4438094	A	19840320	US 82373417	19820430
Priority				DE 3119385	19810515

Fulltext Word Count: 1980

**Summary of the Invention:**

...range of sunlight or artificial light sources between 280 and 320 nm referred to as **ultraviolet -B**-radiation is responsible for the formation for **erythema** of the human **skin**. The maximum effectiveness of the **ultraviolet** radiation for the formation of **erythema** lies at 297 nm if the radiation intensity is equal for all wave lengths. In...

...varying intensity, this maximum shifts to 308 nm. By using suitable filter substances for the **ultraviolet -B** range, it is possible to prevent or at least delay the formation of **erythema**. The pigment formation of the **skin** that is tanning should, however, be retained...

...light in the ultraviolet range and is also a usable sun screen for the human **skin** is determined by several factors. In addition to the high filtering effectiveness in the **erythema** range, the substance should have a relatively high permeability in the **ultraviolet -A** range. It should also be as compatible with the **skin** and the mucous membrane and must not be toxic. Finally the substance should not be...absorption takes place at the same temperature. At the end of the reaction process, after **cooling** of the mixture, the alkaline reaction agents may be neutralized by adding dilute carboxylic acid...

19/3,K/71 (Item 48 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

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2465193

Derwent Accession: 1981-60765D

**Utility**

**EXPIRED**

**C/ Phenyl-alkanoic acid derivative and preparation thereof ; ANTIINFLAMMATORY AGENTS, ANALGESICS**

Inventor: Ueda, Ikuo, Toyonaka, JP

Kitaura, Yoshihiko, Sakurai, JP

Matsuo, Masaaki, Toyonaka, JP  
 Konishi, Nobukiyo, Mukou, JP  
 Assignee: Fujisawa Pharmaceutical Company, Ltd. (03), Osaka, JP  
 FUJISAWA PHARMACEUTICAL CO LTD JP (Code: 32600)  
 Examiner: Fan, Jane T. (Art Unit: 121)  
 Law Firm: Oblon, Fisher, Spivak, McClelland & Maier

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 4367238	A	19830104	US 81226908	19810121
Priority				GB 802790	19800128
				GB 8039308	19801208

Fulltext Word Count: 25561

Summary of the Invention:

...a solvent such as dimethylformamide, toluene, xylene or the like, at a temperature range from **cooling** to warming...adhesive tape with 3 small holes of 9 mm diameter was placed on the depilated **skin** and then the animal was exposed to ultra-violet radiation from an **ultra - violet** lamp (500 W, manufactured by Engelhard Hanovia Inc.) at a distance of 13 cm. for 80 seconds. Two hours later, the degree of **erythema** was estimated on the basis of the following scores...

19/3,K/72 (Item 49 from file: 654)

DIALOG(R) File 654:US PAT.FULL.

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2420109

Derwent Accession: 1971-18955S

Utility

C/ Pharmaceutical compositions comprising a pyrazole derivative and method of use

; ANTIINFLAMMATORY AGENTS, ANALGESICS, ANTIDYRETICS

Inventor: Rainer, Georg, Konstanz, DE

Assignee: Byk-Gulden Lomberg Chemische Fabrik GmbH (03), DE

BYK-GULDEN LOMBERG CHEMISCHE FABRIK DE (Code: 12856)

Examiner: Jiles, Henry R. (Art Unit: 121)

Assistant Examiner: Harkaway, Natalia

Law Firm: Weiser, Stapler & Spivak

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 4325962	A	19820420	US 78969872	19781215
Division	US 4146721	A	19790327	US 7072233	19700914
Priority				DE 1946370	19690912

Fulltext Word Count: 21524

Description of the Invention:

...milliliters dioxane. To this mixture was added dropwise at 20[degree(s)] C. and with **cooling** a solution of 33.6 grams potassium hydroxide in 30 milliliters water. Thereafter, 101 grams...dropwise addition of concentrated aqueous hydrochloric acid, until it had a pH of 4, with **cooling** by ice. The precipitate was separated by filtration. 2.5 grams 2,5-dimethyl-1H...in accordance with the method of Example 9a)

were added in portions and with light **cooling** to a mixture of 1.27 gram pure sodium hydride and 70 milliliters 1,2...with activated carbon, and 150 milliliters water were added to the clear solution followed by **cooling** in an ice bath. The precipitate formed thereby was filtered off by suction, dried and...degree(s)] C. to 263 grams dimethylformamide followed by stirring for 1 hour without further **cooling** . Thereafter 100 grams p-chloro-acetophenone-phenylhydrazene were added at 15[degree(s)]-20[degree...mixed and the mixture heated to the boiling temperature under reflux for 11 hours. The **cooled** reaction mixture was then extracted, first with sodium carbonate solution and thereafter with water. The...Winter, Risley and Nuss, Proc. Soc. exp. Biol. Med. 111 544, (1962) and at the **ultraviolet erythema** of the **skin** on the back of the guinea pig (Winder et al., Arch. Int. Pharmacodyn, 116, 261...

19/3,K/73 (Item 50 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

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2312768

Derwent Accession: 1978-19514A

**Reissue**

C/ **Substituted pyrroloquinoxalinones and diones**

; **ANTIINFLAMMATORY AGENTS, ANTITHROMBOTIC AGENTS**

Inventor: Holmes, Richard E., Indianapolis, IN

Assignee: Eli Lilly and Company (02), Indianapolis, IN

LILLY, ELI AND CO (Code: 49800)

Examiner: Friedman, Stanley J. (Art Unit: 125)

Combined Principal Attorneys: Rowe, James L.; Whale, Arthur R.

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US RE30415	E	19801007	US 7942848	19790529
Division	US 4075206	A		US 77772154	19770225
1st Reissue	US 4087527	A	19780502	US 77836830	19770926

Fulltext Word Count: 7143

Description of the Invention:

...mixture heated at refluxing temperature for about 4 hours. The solid quinoxalinone which precipitated upon **cooling** was collected by filtration and the filter cake washed with ethanol. Recrystallization of the filter...final reaction mixture was heated until refluxing temperature was achieved. The reaction mixture was then **cooled** in an ice bath. The solid that precipitated comprising 4-isonitrosoacetyl-3,4-dihydro-1H...thrombotic agents. Their anti-inflammatory activity can be demonstrated by their ability to block the **erythema** produced by an **ultra - violet** light source on guinea pig **skin** according to the method of Windner, et al Arch. Int. Pharmacodyn, 116, 261 (1958). In...

19/3,K/74 (Item 51 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

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2293711

Derwent Accession: 1978-19514A

**Reissue**

C/ Substituted pyrroloquinoxalinones and diones  
; ANTIINFLAMMATORY, ANTITHROMBOTIC

Inventor: Holmes, Richard E., Indianapolis, IN

Assignee: Eli Lilly and Company (02), Indianapolis, IN  
LILLY, ELI AND CO (Code: 49800)

Examiner: Turnipseed; James H. (Art Unit: 122)

Combined Principal Attorneys: Rowe, James L.; Whale, Arthur R.

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US RE30314	E	19800624	US 7933659	19790426
1st Reissue	US 4075206	A	19780221	US 77772154	19770225

Fulltext Word Count: 7097

Description of the Invention:

...mixture heated at refluxing temperature for about 4 hours. The solid quinoxalinone which precipitated upon **cooling** was collected by filtration and the filter cake washed with ethanol. Recrystallization of the filter...final reaction mixture was heated until refluxing temperature was achieved. The reaction mixture was then **cooled** in an ice bath. The solid that precipitated comprising 4-isonitrosoacetyl-3,4-dihydro-1H...thrombotic agents. Their anti-inflammatory activity can be demonstrated by their ability to block the **erythema** produced by an **ultra - violet** light source on guinea pig **skin** according to the method of Windner, et al. Arch. Int. Pharmacodyn, 116, 261 (1958). In...

19/3,K/75 (Item 52 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

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2227017

Derwent Accession: 1971-18955S

Utility

C/ Pyrazol-4-acetic acid compounds

; ANALGESICS, ANTIINFLAMMATORY AGENTS AND ANTIPYRETICS

Inventor: Rainer, Georg, Konstanz, DE

Assignee: Byk Gulden Lomberg Chemische Fabrik GmbH (03), Konstanz, DE  
BYK-GULDEN LOMBERG CHEMISCHE FABRIK DE (Code: 12856)

Examiner: Trousof, Natalie (Art Unit: 121)

Law Firm: Weiser, Stapler & Spivak

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 4146721	A	19790327	US 7072233	19700914

Fulltext Word Count: 20511

Description of the Invention:

...milliliters dioxane. To this mixture was added dropwise at 20[degree(s)] C. and with **cooling** a solution of 33.6 grams potassium hydroxide in 30 milliliters water. Thereafter, 101 grams...dropwise addition of concentrated aqueous hydrochloric acid, until it had a pH of 4, with **cooling** by ice. The precipitate was separated by filtration.



2.5 grams 2,5-Dimethyl-1H...in accordance with the method of Example (9a) was added in portions and with light **cooling** to a mixture of 1.27 gram pure sodium hydride and 70 milliliters 1,2...with activated carbon, and 150 milliliters water were added to the clear solution followed by **cooling** in an ice bath. The precipitate formed thereby was filtered off by suction, dried and...degree(s)] C. to 263 grams dimethylformamide followed by stirring for 1 hour without further **cooling**. Thereafter 100 grams p-chloro-acetophenone-phenylhydrazine were added at 15[degree(s)]-20[degree...mixed and the mixture heated to the boiling temperature under reflux for 11 hours. The **cooled** reaction mixture was then extracted, first with sodium carbonate solution and thereafter with water. The...rat (Winter, Risley and Nuss, Prox. Soc. exp. Biol. Med. 111, (1962) and at the **ultraviolet erythema** of the **skin** on the back of the guinea pig (Winder et al., Arch. int. Pharmacodyn, 116, 261...

19/3,K/76 (Item 53 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

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2213416

Derwent Accession: 1978-19514A

#### Utility

C/ Substituted pyrroloquinoxalinones and diones used in treating inflammation in warm blooded mammals

Inventor: Holmes, Richard E., Indianapolis, IN

Assignee: Eli Lilly and Company (02), Indianapolis, IN

LILLY, ELI AND CO (Code: 49800)

Examiner: Rizzo, Nicholas S. (Art Unit: 122)

Assistant Examiner: Turnipseed, James H.

Combined Principal Attorneys: Rowe, James L.; Whale, Arthur R.

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 4133884	A	19790109	US 77860005	19771212
Division	US 4075206	A		US 77772154	19770205

Fulltext Word Count: 6934

#### Summary of the Invention:

...mixture heated at refluxing temperature for about 4 hours. The solid quinoxalinone which precipitated upon **cooling** was collected by filtration and the filter cake washed with ethanol. Recrystallization of the filter...final reaction mixture was heated until refluxing temperature was achieved. The reaction mixture was then **cooled** in an ice bath. The solid that precipitated comprising 4-isonitrosoacetyl-3,4-dihydro-1H...

...thrombotic agents. Their anti-inflammatory activity can be demonstrated by their ability to block the **erythema** produced by an **ultra - violet** light source on guinea pig **skin** according to the method of Windner, et al Arch. Int. Pharmacodyn, 116, 261 (1958). In...

19/3,K/77 (Item 54 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

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2167532

Derwent Accession: 1976-84924X

**Utility**

C/ **Fused silica article having titania-silicate barrier zone**

Inventor: Clausen, Edward M., Eastlake, OH

Assignee: General Electric Company (02), Schenectady, NY

GENERAL ELECTRIC CO (Code: 33808)

Examiner: Hoffman, James R. (Art Unit: 162)

Combined Principal Attorneys: Legree, Ernest W.; Kempton, Lawrence R.;

Neuhauser, Frank L.

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 4091163	A	19780523	US 76725961	19760923
Division	US 3988628	A		US 74478926	19740613

Fulltext Word Count: 1645

**Summary of the Invention:**

...stops all radiation below 280 nm. and may be used to transmit only the near **ultraviolet** which produces **skin** tanning without giving rise to **erythematous** action. These fused silicas are described by the manufacturer as consisting of 99.97% SiO...

...passage of sodium from the hot arc plasma through the fused silica wall into the **cooler** region between the arc tube and the outer envelope. The lost sodium can no longer...

19/3,K/78 (Item 55 from file: 654)

DIALOG(R) File 654:US PAT.FULL.

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2163710

Derwent Accession: 1978-45665A

**Utility**

C/ **Substituted pyrroloquinoxalinones and diones**

; **ANTIINFLAMMATORY AND ANTITHROMBOTIC AGENTS**

Inventor: Holmes, Richard E., Indianapolis, IN

Assignee: Eli Lilly and Company (02), Indianapolis, IN

LILLY, ELI AND CO (Code: 49800)

Examiner: Friedman, Stanley J. (Art Unit: 125)

Combined Principal Attorneys: Rowe, James L.; Whale, Arthur R.

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 4087527	A	19780502	US 77836830	19770926
Division				US 77772154	19770225

Fulltext Word Count: 6967

**Description of the Invention:**

...mixture heated at refluxing temperature for about 4 hours. The solid quinoxalinone which precipitated upon **cooling** was collected by filtration and the filter cake washed with ethanol. Recrystallization of the filter...final reaction mixture was heated until refluxing temperature was achieved. The reaction mixture was then **cooled** in an

ice bath. The solid that precipitated comprising  
4-isonitrosoacetyl-3,4-dihydro-1H...thrombotic agents. Their  
anti-inflammatory activity can be demonstrated by their ability to block  
the **erythema** produced by an **ultra - violet** light source on guinea pig  
**skin** according to the method of Windner, et al Arch. Int. Pharmacodyn,  
116, 261 (1958). In...

19/3,K/79 (Item 56 from file: 654)  
DIALOG(R)File 654:US PAT.FULL.  
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2150775

Derwent Accession: 1978-19514A

**Utility**

C/ **Substituted pyrroloquinoxalinones and diones**  
; **ANTIINFLAMMATORY, ANTITHROMBOTIC**

Inventor: Holmes, Richard E., Indianapolis, IN

Assignee: Eli Lilly and Company (02), Indianapolis, IN

LILLY, ELI AND CO (Code: 49800)

Examiner: Daus, Donald G. (Art Unit: 122)

Assistant Examiner: Turnipseed, James H.

Combined Principal Attorneys: Rowe, James L.; Whale, Arthur R.

	Publication Number	Kind	Date	Application Number	Filing Date
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Main Patent	US 4075206	A	19780221	US 77772154	19770225

Fulltext Word Count: 7151

**Description of the Invention:**

...mixture heated at refluxing temperature for about 4 hours. The solid  
quinoxalinone which precipitated upon **cooling** was collected by  
filtration and the filter cake washed with ethanol. Recrystallization of  
the filter...final reaction mixture was heated until refluxing  
temperature was achieved. The reaction mixture was then **cooled** in an  
ice bath. The solid that precipitated comprising  
4-isonitrosoacetyl-3,4-dihydro-1H...thrombotic agents. Their  
anti-inflammatory activity can be demonstrated by their ability to block  
the **erythema** produced by an **ultra - violet** light source on guinea pig  
**skin** according to the method of Windner, er al. Arch. Int. Pharmacodyn,  
116, 261 (1958)..In...

19/3,K/80 (Item 57 from file: 654)  
DIALOG(R)File 654:US PAT.FULL.  
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2144106 \*\*IMAGE Available

Derwent Accession: 1978-10025A

**Utility**

M/ **Eye cooler for sunbathers**

Inventor: Holcombe, Jr., Cressie E., 1613 Blackwood Drive, Knoxville, TN,  
37921

Assignee: Unassigned

UNASSIGNED OR ASSIGNED TO INDIVIDUAL (Code: 68000)

Examiner: Sacher, Paul A. (Art Unit: 257)

Combined Principal Attorneys: Skinner, Martin J.

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 4068918	A	19780117	US 76745471	19761126
CIP	Abandoned			US 75597839	19750721

Fulltext Word Count: 3911

Description of the Invention:

...As stated above, it is desired that the lenses of my eye **cooler** transmit a reasonable degree of the **ultraviolet radiation** which brings about sunburn ( **erythema** ) and/or tanning (pigmentation). This u.v. radiation is in the range of about 2970A to 3300A for combined **erythema** and pigmentation; or for a greater degree of pigmentation, from 3150A to 3300A. These ranges...

19/3,K/81 (Item 58 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

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2109935

Derwent Accession: 1977-53992Y

Utility

C/ Ultra-violet filtration with certain aminosalicyclic acid esters  
; SUNSCREEN AGENTS

Inventor: Halpern, Alfred, Great Neck, NY

Sasmor, Ernest J., Yonkers, NY

Assignee: Synergistics, Inc. (02), New York, NY

SYNERGISTICS INC (Code: 82328)

Examiner: Ore, Dale R. (Art Unit: 125)

Law Firm: Wolder & Gross

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 4036951	A	19770719	US 76649891	19760116
Continuation	Abandoned			US 73340481	19730312
CIP	Abandoned			US 71145488	19710520

Fulltext Word Count: 5613

Summary of the Invention:

...a desirable stimulation of the tissue melanin-producing system to result in direct tanning of **skin** without accompanying **erythema** or burn. Thus it has become accepted that a satisfactory sun screen compound must effectively block **ultra - violet** light within the wave-length range of 2950 A[degree(s)]. to 3150 A[degree...When this test was applied to the aforesaid compounds, it was found that the **ultra - violet** rays of the wave-length from 2950 A[degree(s)]. to 3200 A[degree(s)]., which have been shown to cause solar burning, evidenced by **erythema**, pain and **skin** edema, were effectively absorbed or blocked, while those **ultra - violet** light rays within the wave-length of between 3300 A[degree(s)]. and 3800 A...

...occur by a topical analgesic and anaesthetic action. When it is desired to counteract the **erythema**, pain, tenderness and other local topical dermal reactions to sunburn or excess **ultra - violet** irradiation, then

the aforesaid active compounds and compositions containing the same, are applied to the affected **skin** site from 1 to 6 times daily. An immediate **cooling**, soothing local response will be observed and pain and tenderness will be promptly eliminated. The **erythema** will blanch within a reasonable period of time and be replaced by conventional tanning...

19/3,K/82 (Item 59 from file: 654)

DIALOG(R) File 654:US PAT.FULL.

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2058662 \*\*IMAGE Available

Derwent Accession: 1976-84924X

**Utility**

**CE/ Metal halide lamp with titania-silicate barrier zone in fused silica envelope**

Inventor: Clausen, Edward M., Eastlake, OH

Assignee: General Electric Company (02), Schenectady, NY

GENERAL ELECTRIC CO (Code: 33808)

Examiner: Demeo, Palmer C. (Art Unit: 252)

Combined Principal Attorneys: Legree, Ernest W.; Kempton, Lawrence R.; Neuhauser, Frank L.

	Publication Number	Kind	Date	Application Number	Filing Date
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Main Patent	US 3988628	A	19761026	US 74478926	19740613

Fulltext Word Count: 1589

**Summary of the Invention:**

...stops all radiation below 280 nm. and may be used to transmit only the near **ultraviolet** which produces **skin** tanning without giving rise to **erythematous** action. These fused silicas are described by the manufacturer as consisting of 99.97% SiO...

...passage of sodium from the hot arc plasma through the fused silica wall into the **cooler** region between the arc tube and the outer envelope. The lost sodium can no longer...

19/3,K/83 (Item 1 from file: 710)

DIALOG(R) File 710:Times/Sun.Times(London)

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08684201

**Dangers from heatstroke more severe than sunburn; Medical Briefing**

Times of London (TL) - Friday, June 30, 1995

By: Dr Thomas Stuttford

Section: Home news

Word Count: 510

...than stemming from any reluctance to serve in a battle zone.

Excessive exposure to the **ultraviolet** rays of sunlight cause **erythema**, a reddening of the **skin**, which can start within two hours but is usually delayed for six to eight hours...

... laboured and, often after convulsions, death can occur within hours.  
Patients with heatstroke need rapid **cooling** and rehydration.